

LEADS Pad Printing Inks



PAD PRINTING LASER MARKING CONSUMABLES SERVICE

Ink range

For all pad printing systems



TAMPOPRINT®

Worldwide



TAMPOPRINT® GmbH
Headquarters
Germany



TAMPOPRINT® Int'l. Corp.
Subsidiary
USA



TAMPOPRINT® IBERIA S.A.U.
Subsidiary
Spain



Sales Network
Europe, America, Africa,
Asia, Australia

Industrial product marking and labeling using pad printing and lasers - that is our profession and our passion. TAMPOPRINT develops a perfectly coordinated system of machines and processes for numerous industries. Our goal: to make pad printing and laser processes better and more effective.

As a typical "hidden champion" from Baden-Württemberg, TAMPOPRINT is unbeaten when it comes to industrial pad printing and laser marking technologies that are in demand internationally. We have a special level of expertise in process and application technology. This enables us to offer coherent concepts and developments for every requirement of our customers from a single source.

technologies for your future



Summary



6

General and Categories



8

Technical terms



10

Ink shade card
Standard inks



11

Ink shade card
Basic inks



12

Printing materials



14

Properties
& Resistances



16

Ink types



56

Overview of ink types
based on examples



60

Service



TAMPOPRINT

TAMPOPRINT



HERMETIC 140



Everything from a single source

PROCESS OWNERSHIP

Consulting

Application technology

Development

Standard machines

Special machines

Consumables

Service

Accessories

Service

Retrofit



ORIGINAL
TAMPPRINT
Germany

SIEMENS SIMATIC HMI TOUCH

V-60/90 DUO
Harmonic System
Made in Germany

**PRINT/LASER AUTOMATION
MODULE ONE S**
Pad printing and laser engraving
in one process.

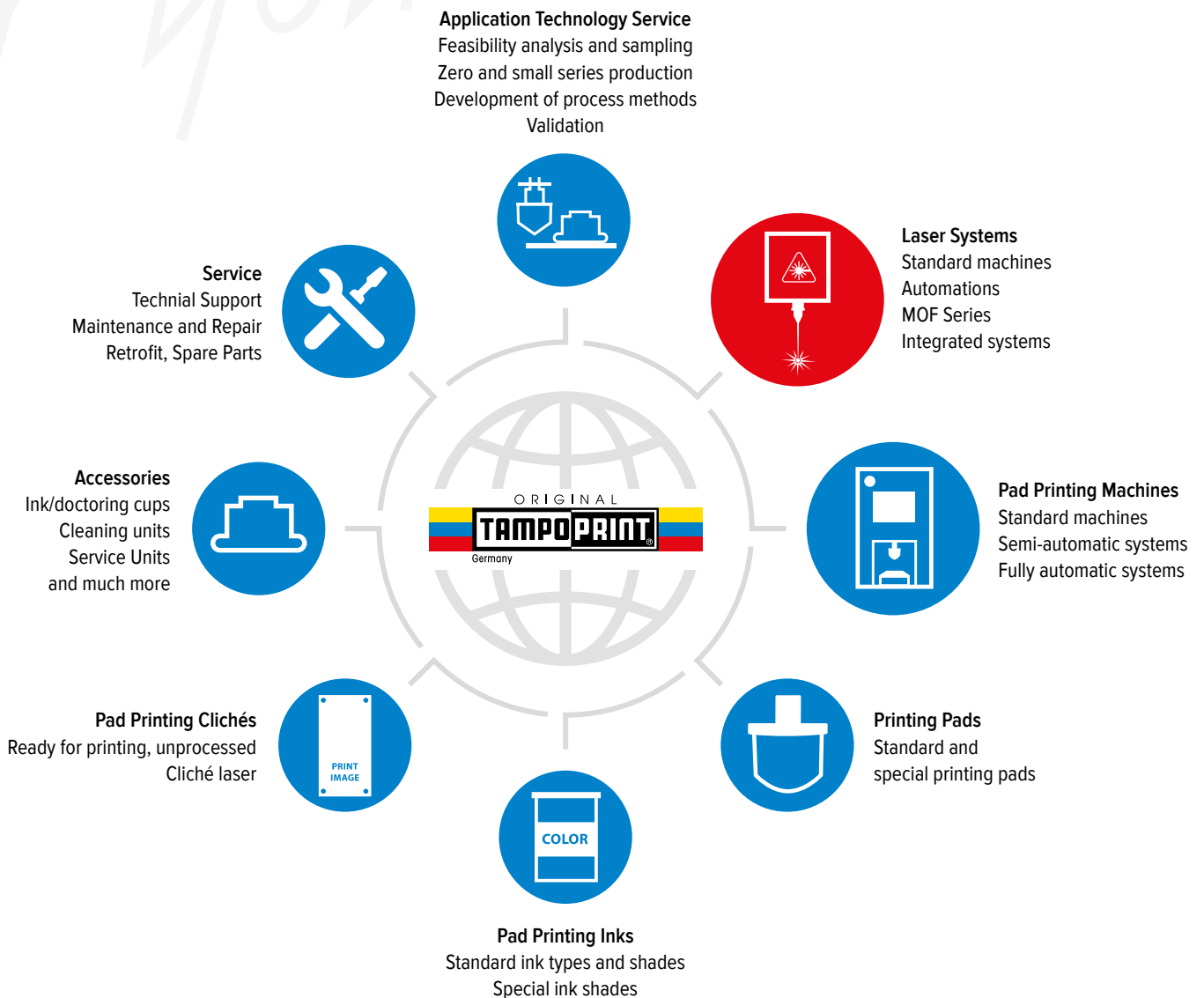
We take care of the entire process

Our Mission

Your Partner for Laser Marking and Pad Printing

As a company that has been supporting customer applications worldwide for decades through in-house developments in the field of pad printing and lasers, the definition of the company mission with "100 % process ownership" is almost logical. We see ourselves as a "one-stop shop" for all customers who need a partner who takes care of their needs right from the start. Our strength here lies in the

turn-key solution, from the entry-level machine in the manual processing sector to the fully automated high-tech solution. We accompany our customers throughout their product life cycle and beyond. Driven by our mission, we not only take care of the machine, but also offer our customers all consumables from our own production sites as well as from selected suppliers.



Pad Printing Inks

Pad printing inks in general

In pad printing, both transparent halftone printing inks (CMYK) and opaque pad printing inks are used in many different ink shades.

Today, the comprehensive range of pad printing inks enables the customer to select a pad printing ink type that is precisely tailored to their requirements.

TAMPOPRINT pad printing inks comply with the REACH Directive (EC) No. 1907/2006 and the RoHS Directive 2011/65/EU and have the approvals for many other certifications required by the market worldwide.

Depending on the substrate and the requirements on the resistance of the pad printing inks, either 1- or 2-component inks are used.

UV pad printing inks

For special requirements we offer a UV pad printing ink (1-component).

Preferably used for high quality requirements of high-speed pad printing systems.

Low solvent content is in line with increased environmental awareness and at the same time it ensures a reliable production process with a high-quality print result.

Immediate further processing thanks to short drying times are a clear investment in the future.



Environmentally-friendly pad printing inks

In line with the current issues in dealing with the environment and safety, TAMPOPRINT develops innovative pad printing inks in cooperation with well-known manufacturers in the printing ink industry. This shows the constant willingness to innovate and the environmental awareness of our company. The ink types meet the growing demands of our customers for halogen- and cyclohexanone-free pad printing inks.

Mineral oil free packaging production

Our inks have few/no mineral oils, as we work with solvent-based inks. In packaging gravure or offset printing, high-boiling mineral oils are used, which have to be expelled from the print film at high temperatures (over 200 °C). This is not the case with us.

In contrast to heatset inks, our solvent-based inks of course have advantages here - the heatset inks dry faster. After printing, the printing process is complete. Our solvent-based inks still need a reaction time of 24 h up to 5 days. They react more quickly with heat, but they are not in the same high temperature range as heatset inks. Of course, offset printing cannot be generalized, as coldset inks or UV inks are also used.

Our service

A fast service in the field of standard and special ink types, basic ink types in standard and special ink shades is becoming more and more important. TAMPOPRINT can guarantee this fast service despite the large choice of ink types and ink shades on offer.

Material safety data sheets

Current material safety data sheets according to the REACH Directive (EC) No. 1907/2006 are available on request at any time.

Please send your inquiries to colourmsds@tampoprint.de.

Important note

Basically, all components must be used exclusively from one and the same manufacturer.

Always mix ink shades of only one ink type.

For example: Ink type ACP = ink shade 61 + ink shade 67.

Processing other media in pad printing

In addition to pad printing inks, other media such as primers, adhesives and lubricants, silicone or soldering pastes, noble metals, electrical conductive pastes or thermal conductive pastes, etc. can also be transferred to your product using the pad printing process.

Transferability must be checked and tested by our application engineering department in each individual case.

Storage

At 21 °C, storage stability of at least 12 months is guaranteed in unopened original containers. Excluded are bronze and effect colors. Higher storage temperatures reduce the storage stability.

Category

Pad Printing Inks

Basic ink formulations formulations

By using basic inks, we offer our customers the possibility of mixing special ink shades themselves.

We will be happy to advise you and provide you with a variety of formulations.

Ink types: ACP, N.

Ink mixing systems based on RAL and Pantone on request.

See ink shade card page 11.

Standard ink shades

We offer our ink types with up to 23 premixed standard ink shades. You will receive pad printing inks for all common applications.

This range also includes European ink shades for halftone 4-color printing (CMYK) as well as gold and silver.

The coverage of ink types and ink shades also depends on the surface to be printed and the engraving depth, cliché screening and the number of prints (single or double/multiple printing).

See ink shade card page 10.

Special ink types/shades

Based on your color specifications, the desired ink shade will be produced in our color laboratory.

Ink shade systems are:

RAL, PMS, NCS,

HKS K (glossy), HKS N (matt).

We will also find the right pad printing ink type for special applications.

Note: Most TAMPOPRINT solvent inks are offered in 1 liter containers. Depending on the specific weight differences of the respective ink types, a 1-liter container can weigh between 1.2-2.0 kg!

The ink types UV-RDF, RDF-HF and U-HF are offered in 1 kg containers. The specific weight differences of the individual ink types may mean that containers are not completely filled.

Technical Terms

1-component ink

The 1-component inks dry physically by evaporation of the solvents. This process can be supported by warm air.

2-component ink

After ink transfer and physical drying, a chemical crosslinking reaction starts between binding agent and hardener. The maximum processing time (pot life) is limited by the addition of hardener (the pot life varies depending on the ink type and hardener - please refer to the respective technical data for details). After this, reduced adhesion and resistance must be expected, even if the ink still appears liquid and processable.

Solvent-based pad printing inks

Our solvent based pad printing inks are available as 1- or 2-component inks. They are based on different solvents that offer the right properties and resistance depending on the application and substrate. In order for these inks to adhere to certain materials or if a certain level of resistance is to be met, various hardeners are recommended. These can be found on page 10 to 13 and in the respective technical data sheet in our ink catalog.

UV pad printing inks

UV pad printing inks are low-solvent pad printing inks that cure by irradiation with UV light. Since they are 1-component inks, the addition of a hardener is not required here.

Composition of the printing inks:

| Solvent based inks | UV inks |
|----------------------|----------------------|
| Additives | Additives |
| Pigments / Extenders | Pigments / Extenders |
| Solvents | Monomers |
| Hardeners | Photoinitiators |
| Resins | Prepolymers |

Viscosity

The TAMPOPRINT ink series are not adjusted ready for printing, but must be individually adjusted to the correct viscosity with the appropriate thinner (solvent) depending on the print image and application.

Print additives

Additives are substances added to solvent-based and UV pad printing inks in small quantities to achieve or improve certain properties. For example, additives are said to have a positive influence on processing and appearance.

Thinner (solvent)

The addition of a thinner not only influences the viscosity, flow properties and ink transfer behavior of the pad printing ink from the printing pad to the printed material, but also the drying speed in particular. In addition to universal and fast thinners, there are also thinners available that act slowly or very slowly depending on the ink type.

Retarder (solvent)

The retarder is a very slow thinner and only serves to extend the viscosity without having any negative effects on the ink viscosity. The addition of a retarder may also be necessary for large print images or slow pad printing machines.

Adhesive agent (primer)

In order to achieve ink adhesion with polyolefins such as PE (polyethylene) and PP (polypropylene), the surface of the printed material must be pretreated prior to the printing process. This can be done with corona, gas or plasma pre-treatment stations on your pad printing machine. For PP (polypropylene), the offered adhesive agent PP-1 and PP-O can be used instead of one of the above-mentioned processes.

Leveling agent

The leveling agent reduces the surface tension of the pad printing ink. The additional defoaming effect makes large-area single-color prints (print images) appear more homogeneous (e.g. orange peel effects). To avoid adhesion problems when printing "ink on ink", the addition (admixture) of 1 % leveling agent should not be exceeded.

Hardener

A hardener is added to the 2-component inks for better resistance and adhesion to the substrate. This means that the hardener reacts with the remaining resin binder of the printing ink and creates a crosslinking of the printing ink or ink film on the printed material.

Disposal

The recommendation for proper disposal is described in section 13 of the material safety data sheet of the pad printing ink (material safety data sheet available on request).

Cleaning

For all ink types, the pad printing clichés and tools can be cleaned with our RM cleaning agent or our cliché spray.

Pretreatment methods

- Ionization: For all substrates
 - Causes the discharge of surface tension
- Gas flame pretreatment
- Plasma pretreatment
- Corona pretreatment (high voltage arc)

Post-treatment methods

- Thermal diffusion shock drying
- Flame drying
- Hot air nozzle drying
- Infrared drying
- Oven drying
- Medium pressure mercury vapor lamp (UV lamp)

Standard ink shades

Ink types

Determining the article/order number

To determine the article number, please insert the two-digit number of the respective ink type into the article number and state the complete number when ordering.

Example: 10 09 XX

Ink shade acc. to ink shade card
Ink type

| | | | | | | | | | |
|-----------|---|---|-----------|--|---|-----------|--|---|--|
| 01 | schwarz black noir negro |  | 11 | bordeaux rot bordeaux red bordeaux burdeos |  | 21 | brillant grün green brilliant vert brillant verde brillante |  | Ink shade not available for the ink types U-HF, RDF-HF |
| 02 | weiß white blanc blanco |  | 12 | rosa pink rose rosa |  | 22 | braun hell brown light brun clair marrón claro |  | |
| 03 | zitronengelb citron yellow jaune citron amarillo limón |  | 13 | blau hell blue light bleu clair azul claro |  | 23 | braun dunkel brown dark brun foncé marrón oscuro |  | |
| 04 | gelb mittel yellow medium jaune moyen amarillo medio |  | 14 | blau mittel blue medium bleu moyen azul medio |  | 50 | Klarlack Clear coat Vernis transparent Barniz neutral |  | |
| 05 | gelb dunkel yellow dark jaune foncé amarillo oscuro |  | 15 | blau ultra blue ultra bleu ultra azul ultra |  | 51 | silber silver argent plata |  | |
| 06 | orange orange orange naranja |  | 16 | blau dunkel blue dark bleu foncé azul oscuro |  | 52 | gold gold or ore |  | |
| 07 | gelb ocker ochre yellow jaune ocre amarillo ocre |  | 17 | türkis turquoise turquoise turquesa |  | | | | |
| 08 | rot hell red light rouge clair rojo claro |  | 18 | violett violet violet violeta |  | | | | |
| 09 | signalrot red bright rouge vif rojo vivo |  | 19 | grün hell green light vert clair verde claro |  | | | | |
| 10 | karmिनrot carmine rouge carmin rojo carmin |  | 20 | tannengrün green fir vert sapin verde pino |  | | | | |

European ink shades

CMYK inks for the photo-realistic presentation

| | |
|-----------|--|
| 80 | yellow Europaton lasierend process yellow Europe shade yellow (jaune) Europe effet lasuré color de cuatricromía amarillo Europa |
| 81 | magenta Europaton lasierend process magenta Europe shade magenta Europe effet lasuré color de cuatricromía magenta Europa |
| 82 | cyan Europaton lasierend process cyan Europe shade cyan Europe effet lasuré color de cuatricromía cyan Europa |

Note: The ink shades shown here do not correspond to the real appearance of the individual ink types and can only serve as an indicator.













RAL/PANTONE Ink mixing system

Determining the article/order number

To determine the article number, please insert the two-digit number of the respective ink type into the article number and state the complete number when ordering.

Example: 10 09 XX

Ink shade acc. to ink shade card
Ink type

| | | | | | |
|-----------|---|---|-----------|-----------------------------------|---|
| 61 | zitronengelb citron yellow jaune citron amarillo limón |  | 71 | weiß white blanc blanco |  |
| 62 | gelb yellow jaune amarillo |  | 72 | schwarz black noir negro |  |
| 63 | orange orange orange naranja |  | | | |
| 64 | rot hell red light rouge clair rojo claro |  | | | Ink shade not available for the ink types ACP, CFU, U-HF |
| 65 | rot red rouge rojo |  | | | |
| 66 | rosa pink rose rosa |  | | | |
| 67 | violett violet violet violeta |  | | | |
| 68 | blau blue bleu azul |  | | | |
| 69 | grün green vert verde |  | | | |
| 70 | braun hell brown light brun clair marrón claro |  | | | Ink shade not available for the ink types ACP, CFU, U-HF |

Note: The ink shades shown here do not correspond to the real appearance of the individual ink types and can only serve as an indicator.

Standard ink types

Materials to be printed

With regard to the strong fluctuations of the chemical composition and the manufacturing method of substrates, a suitability test (test print) must always be carried out. Antistatic additives, release agents and lubricants can have a negative effect on the ink adhesion.

| Materials to be printed | ACP | B | B/GL | CFU | F | GU-N | L | LOGO | M | N | P | P-AF | RDF-HF | S | TH-G | TP-CD | TP-PP | U-HF | UV-RDF | W |
|--|------------|-----|------|------------|-----|------------|-----|------|-----|-----|------------|------------|------------|-----|------|------------|-------|------------|--------|-----|
| Components | 1-C 2-C | 2-C | 2-C | 1-C 2-C | 1-C | 1-C 2-C | 2-C | 2-C | 2-C | 2-C | 1-C 2-C | 1-C 2-C | 1-C 2-C | 2-C | 1-C | 1-C 2-C | 1-C | 1-C 2-C | | 2-C |
| ABS | . | | | . | | | . | . | . | . | . | . | | . | | | | . | . | . |
| Acrylic glass | . | | | . | | | | . | . | . | . | . | | | | | | . | | |
| Aluminum | | | | | | | | | . | . | | | | . | | | | | | |
| Aluminum anodized | | | . | | . | | | | . | . | | | | | | | | | | |
| Cellulose acetate | . | . | | | | | | | . | . | | | | | | | | | | |
| Thermosetting plastics | | . | . | | | | . | | . | . | | | . | | . | . | | . | | . |
| Elastomers | | | | | | . | | | | | | | | | | | | | | |
| Glass | | | . | | | | | | . | . | | | | | . | | | | | |
| Rubber | | | | | | . | | | | | | | | | | | | | | |
| Epoxy resins | | | | | | | | . | | | | | | | | | | | | |
| Rigid PVC | . | | | . | . | | | | . | . | . | . | | | | | | . | . | . |
| HDPE and LDPE (x3) | | x3 | | | | | | | x3 | x3 | x3 | x3 | | | | | | x3 | x3 | x3 |
| Wood | . | | | . | | | | | . | . | . | . | | | | | | . | | |
| Ceramic | | | . | | | | | | | . | | | | | . | | | | | |
| Leather | . | | | . | | . | | | | | | | | | | | | | | |
| Lexan | | | | | | | | | | . | | | | | | | | | | |
| Makrolon (PC) | . | | | | | | | | | | . | . | | | | | | . | | |
| Metal | | . | . | | . | | . | | . | . | | | | . | . | . | | | | . |
| Non-ferrous metal | | | . | | | | . | | . | . | | | | | | . | | | | . |
| Noryl | | . | | | | | | | . | . | | | | | | | | | | . |
| Lacquered surface | | . | | | . | | . | | . | . | . | . | . | | | . | | . | . | . |
| Powder-coated surface | | . | | | | | | | | | | | . | | | . | | . | | |
| Chrome, nickel, gold and rhodium-plated surfaces | | | . | | | | | | . | | | | | | | | | | | |
| Paper | . | | | . | | | | | | | . | . | | | | | | . | | |


b = limited

1-C = 1-component ink

2-C = 2-component ink

x1 = only with thermal post-treatment, approx. 130 °C (with gas flame or oven)

x3 = only with pretreatment

Environmentally friendly 
Pad printing inks

Standard ink types

Materials to be printed

With regard to the strong fluctuations of the chemical composition and the manufacturing method of substrates, a suitability test (test print) must always be carried out. Antistatic additives, release agents and lubricants can have a negative effect on the ink adhesion.

| Materials to be printed | ACP | B | B/GL | CFU | F | GU-N | L | LOGO | M | N | P | P-AF | RDF-HF | S | TH-G | TP-CD | TP-PP | U-HF | UV-RDF | W |
|----------------------------|------------|-----|------|------------|-----|------------|-----|------|-----|-----|------------|------------|------------|-----|------|------------|-------|------------|--------|-----|
| Components | 1-C 2-C | 2-C | 2-C | 1-C 2-C | 1-C | 1-C 2-C | 2-C | 2-C | 2-C | 2-C | 1-C 2-C | 1-C 2-C | 1-C 2-C | 2-C | 1-C | 1-C 2-C | 1-C | 1-C 2-C | | 2-C |
| PET (PETP) | • | | | | | | | | • | • | | | • | | | | | | | • |
| Polyacetat (x1) | | x1 | | | | | | | | x1 | x1 | x1 | | | | | | | | |
| Polyamide | 2-K | • | | 2-K | | | • | | • | • | | | 2-K | • | | | | • | | • |
| Polyethylen (x3) | • | x3 | | x3 | | | x3 | | x3 | x3 | x3 | x3 | x3 | | | x3 | | x3 | x3 | x3 |
| Polycarbonate | • | | | • | | | | | • | • | • | • | • | | | | | • | | • |
| Polyester | | | | | | | • | | • | • | • | • | | | | | | | | • |
| Polyhydroxyalkanoate (PHA) | | | | | | | | | | | | | | | | | | • | | |
| Polymethacrylate | | | | | | | | | | | | | | | | | | | | • |
| Polymethylmethacrylate | | | | | | | | | • | • | • | • | | | | | | | | |
| Polypropylene (x3) | 2-K | x3 | | x3 | | | x3 | | x3 | x3 | x3 | x3 | x3 | x3 | | x3 | • | x3 | x3 | x3 |
| Polystyrene | • | | | • | | | | | • | • | • | • | | | | | | • | • | • |
| Polyurethane | | | | • | | • | | | • | • | • | • | | | | | | • | | • |
| Powder coatings | | • | | | | | | | • | • | | | | | | | | • | | |
| SAN | • | • | | • | | | | | • | • | • | • | | | | | | • | | |
| Soft lacquers | | | | | | • | | • | | | | | | | | b | | | | |
| Textiles | | | | | | • | | | • | • | | | | | | | | • | | |
| Thermoplastics | | | | | | • | | • | | | | | | | | | | | | |
| TPE | | | | | | • | | • | | | | | | | | | | | | |
| UV lacquer | | | | | | | | | | | | | | | | • | | | | |
| Soft PVC | • | | | | | • | | | | | | | | | | | | | | • |


b = limited

1-C = 1-component ink

2-C = 2-component ink

x1 = only with thermal post-treatment, approx. 130 °C (with gas flame or oven)

x3 = only with pretreatment

Environmentally friendly 
Pad printing inks



Standard ink types

Properties & Resistances

Overview of the properties of the ink film when selecting the ink type, taking into account the material. The table provides information on the mechanical load-bearing capacity, the optical appearance and notes on further processing possibilities of the ink film.

| Characteristics | ACP | B | B/GL | CFU | F | GU-N | L | LOGO | M | N | P | P-AF | RDF-HF | S | TH-G | TP-CD | TP-PP | U-HF | UV-RDF | W |
|--|-----|---|------|-----|---|------|---|------|---|---|---|------|--------|---|------|-------|-------|------|--------|---|
| Impact resistant | | | | | | | • | • | | | | | • | | | | | • | • | |
| Block resistant | | | | | | | • | | • | • | • | • | • | | | | | • | • | |
| Permanently elastic | • | | | • | | • | | • | • | • | | | | • | • | | | | • | |
| Coverage (good) | | • | • | • | | | | • | • | • | | | • | • | • | | | • | • | • |
| Gloss ink | • | • | | • | | | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Suitable for food packaging (exterior) | • | • | • | • | • | | • | | • | • | • | • | • | • | | | • | • | • | • |
| Air drying | • | • | • | • | | • | • | • | • | • | • | • | • | • | | • | • | • | | • |
| Oven drying | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • | • |
| Raster capable | | • | • | | | | • | • | • | • | • | • | | • | | | | • | • | • |
| Abrasion resistant | | | • | | | | • | • | • | • | | | • | • | | | | • | • | |
| Satin finish ink | | | • | | • | • | | | | | | | | | | | | | | |
| Stackable | | | | | | | | | | | | • | | | | | | • | • | |
| Deep-drawable | | | | | • | • | | | | | | | | | | | | | | |
| Drying slow | | • | • | | | | • | • | • | • | | | | | | | | | | |
| Drying fast | • | | | • | • | • | | | | | | | • | • | • | • | | • | | |
| Flow (good) | | • | • | • | • | | • | • | • | • | • | • | • | • | • | | | • | • | • |
| Suitable for bonding | | | | | • | | | | | | | | | | | | | | | |
| Mechanical resistance | • | • | • | • | | | • | • | • | • | • | • | • | • | • | | | • | • | • |

• = suitable


Information about the resistance of an ink type on a suitable material. The resistance of an ink type when exposed to a substance (or light) is described.

| Resistance | ACP | B | B/GL | CFU | F | GU-N | L | LOGO | M | N | P | P-AF | RDF-HF | S | TH-G | TP-CD | TP-PP | U-HF | UV-RDF | W |
|------------------------|-----|---|------|-----|---|------|---|------|---|---|-----|------|--------|----------|------|----------|-------|------|--------|---|
| Alkalis, diluted | • | • | • | • | | b | • | b | • | • | • | • | 2-C | • | b | | | • | • | • |
| Alcohol | 2-C | • | • | 2-C | | 2-C | • | | • | • | 2-C | 2-C | 2-C | • | | b 2-C | | 2-C | • | • |
| Alcohol cleaning agent | 2-C | • | • | 2-C | | 2-C | • | | • | • | 2-C | 2-C | 2-C | • | | b 2-C | b | 2-C | • | • |
| Chemicals | 2-C | b | b | 2-C | • | • | • | • | • | • | b | b | 2-C | • | • | • | b | • | 2-C | • |
| Hand perspiration | • | • | • | • | | • | • | • | • | • | • | • | • | • | | | | • | 2-C | • |
| Light | • | | | • | | • | • | • | b | b | | | b | • | • | • | • | • | b | • |
| Solvents, organic | • | • | • | • | | | • | | • | • | | | | | | b | | • | | • |
| Oils and greases | • | • | • | • | | • | • | | • | • | • | • | 2-C | b 2-C | • | • | b | • | 2-C | • |
| Acids, diluted | 2-C | b | • | 2-C | | b | • | | • | • | b | b | b | • | • | | | b | • | • |
| Water | b | • | • | b | | 2-C | • | • | • | • | 2-C | 2-C | b | • | | • | b | b | • | • |
| Weathering | | | | • | | • | • | • | b | b | | | b | • | • | • | • | • | • | • |

• = resistant

2-C = 2-component ink

b = limited

Environmentally friendly 
Pad printing inks



Field of application

For high-speed pad printing machines up to 4,000 cycles/h. Universally applicable pad printing ink. Suitable for printing on the side of the packaging facing away from the food, provided that the inks are used properly and professionally.

| | | | |
|----------------------------------|---|-----------------------------|---|
| Properties | Permanently elastic, suitable for food packaging (outside), air drying, oven drying, fast drying, mechanical resistance. | | |
| Print technical note | For higher mechanical and chemical loads or if greater adhesive strength is required, the ACP ink series can also be used as a 2-component ink. During processing and drying of the ink with hardener, it should be noted that the processing and curing temperature must not be below 15 °C, as otherwise chemical cross-linking will come to a standstill. Excessive humidity should also be avoided in the first few hours, as the hardener is moisture-sensitive. | | |
| Drying | Physically drying and chemically cross-linking. 1-K: At room temperature (21 °C) approx. 30-35 seconds (dust-dry). 2-K: When used with LMN 3 hardener, inks in the ACP series only achieve their high level of resistance and adhesion after chemical cross-linking, which is completed after approx. 36 hours at a minimum temperature of 21 °C. It is advisable to use heat drying to accelerate ink drying on the substrate. Please note: after heat drying, there must be a cooling section, otherwise the printed parts may "stick together". | | |
| Curing | At room temperature (20-25 °C) 1-component ink approx. 1 day, 2-component ink approx. 2 days. | | |
| Pot life | Pot life of the mixed ink at least 48 hours (21 °C). After this time, reduced adhesion and resistance must be expected, even if the ink still appears liquid and processable. | | |
| Ability to over-print | 2-component ink within 24 hours. | | |
| Please note | The high mechanical and chemical resistance is only achieved after the ink has fully cured. | | |
| Certification & norms | ■ The safety data sheet in accordance with REACH Regulation (EC) 1907/2006 contains the labeling as well as information on protective measures during processing, storage and disposal. The raw materials used comply with the limit values of the European standard EN 71 (safety of toys) Part 3 (migration of certain elements). | | |
| Cleaning | Only use RM cleaning agent. All cleaning devices and auxiliaries may only be used for chlorine- and cyclohexanone-free ink, otherwise they will be contaminated with halogen. Use our pad cleaner to clean the printing pads. | | |
| Auxiliaries | Thinner | Mixing ratio 25–35 % | Thinner VDL-K slow drying Thinner VDL-K 380 very slow drying Thinner VDS-K quick drying Thinner VDN-K standard |
| | Retarder | Mixing ratio 5-25 % | Retarder VZ-K |
| | Hardener | Mixing ratio 10 % | Hardener LMN 3 |
| | Leveling agent | Mixing ratio 0,5–1% | Leveling agent VL-K |

This data is based on current technical knowledge and experience. However, due to the wide range of possible influences during processing, they do not exempt the user from carrying out his own tests. No legally binding assurance of specific properties or suitability for a specific application can be derived from our information.

Application technology: If you have any further questions about printing and application technology, please contact our application technology department at any time.

E-Mail: application@tampoprint.de, Tel.: +49 7150 928-351

For your inquiry

ACP



| Our product range | | | | | | Your needs | |
|------------------------------------|----|-------------|---------------------|-----------|----------------------------------|------------|-----------|
| Art.-No. | | | Standard ink shade | Container | Contents | Unit | Ink shade |
| 13 | 13 | 01** - 23** | Standard ink shades | 1 Liter | Specific weight 1.2 – 2.0 kg! | | |
| 13 | 13 | 51 | Silver | 1 Liter | | | |
| 13 | 13 | 52 | Gold | 1 Liter | | | |
| 13 | 13 | 50 | Clear coat | 1 Liter | | | |
| Other ink shades on request | | | | | | | |
| Art.-No. | | | Basic inks | Container | kg | | |
| 13 | 13 | 61** - 63** | Basic inks | 1 Liter | 1 kg | | |
| 13 | 13 | 65** - 69** | Basic inks | 1 Liter | 1 kg | | |
| 13 | 13 | 71** - 72** | Basic inks | 1 Liter | 1 kg | | |
| 13 | 13 | 60 | Lacquer ACP-60 | 1 Liter | 1 kg | | |
| Art.-No. | | | Thinner | Container | kg | | |
| 12 | 01 | 11 | VDL-K | 1 Liter | approx. 1 kg | | |
| 12 | 01 | 24 | VDL-K | 5 Liter | approx. 5 kg | | |
| 12 | 02 | 02 | VDL-K 380 | 1 Liter | approx. 1 kg | | |
| 12 | 01 | 12 | VDS-K | 1 Liter | approx. 1 kg | | |
| 12 | 01 | 13 | VDS-K | 5 Liter | approx. 5 kg | | |
| 12 | 02 | 00 | VDN-K | 1 Liter | approx. 1 kg | | |
| 12 | 02 | 20 | VDN-K | 5 Liter | approx. 5 kg | | |
| Art.-No. | | | Retarder | Container | kg | | |
| 12 | 02 | 08 | VZ-K | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Hardener | Container | kg | | |
| 12 | 03 | 10 | LMN 3 | 0,2 Liter | approx. 0,2 kg | | |
| 12 | 23 | 10 | LMN 3 | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Leveling agent | | | | |
| 10 | 53 | 50 | VL-K | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Cleaning agent | Container | kg | | |
| 12 | 04 | 01 | RM | 1 Liter | approx. 1 kg | | |
| 12 | 94 | 01 | RM | 30 Liter | approx. 30 kg | | |
| Art.-No. | | | Pad cleaner | Container | kg | | |
| 12 | 04 | 04 | Pad cleaner | 1 Liter | approx. 1 kg | | |
| 12 | 94 | 05 | Pad cleaner | 5 Liter | approx. 5 kg | | |



Contact

Sale of pad printing ink
 E-Mail: colour@tampoprint.de
 at: tampoprint.com/downloads (Service request forms)

Material safety data sheets:

Please address your inquiries to
colourmsds@tampoprint.de

** To determine the article number, please add the two-digit number of the respective standard ink shade (ink shade card page 10) to the article number and state the complete number in the order.

Application technical data sheet

B 2-component ink, gloss ink

Available as matt ink on request

Field of application

Used in "open" and "hermetic" pad printing systems. Often used in the automotive industry for PA, PP and PE substrates.

| | | | |
|----------------------------------|--|-----------------------------|----------------------------------|
| Properties | Good coverage, suitable for food packaging (outside), air drying, oven drying, raster capable, slow drying, good flow, mechanical resistance | | |
| Print technical note | When processing, cans with BH hardener must be sealed airtight immediately after removal. | | |
| Pre-treatment | All polyolefins (polyethylene, polypropylene). | | |
| Drying | After adding the BH hardener, physical chemical drying. At room temperature (20-25 °C) approx. 10-15 min. (hand and dust dry). When exposed to heat/air circulation approx. 1 min., with thermal diffusion a few seconds. Oven drying: time and temperature depend on the materials to be printed (Reference value: 80 °C approx. 20 min. depending on ink film thickness). | | |
| Curing | At room temperature (20-25 °C) approx. 5 days. | | |
| Pot life | Pot life of the mixed ink approx. 8 hours, after which reduced adhesion and resistance must be expected, even if the ink still appears liquid and processable. | | |
| Ability to over-print | Within 24 hours. | | |
| Please note | The high mechanical and chemical resistance is only achieved after the ink has fully cured. | | |
| Certification & norms | ■ The safety data sheet in accordance with REACH Regulation (EC) 1907/2006 contains the labeling as well as information on protective measures during processing, storage and disposal. The raw materials used comply with the limit values of the European standard EN 71 (safety of toys) Part 3 (migration of certain elements). | | |
| Cleaning | Our RM cleaning agent is suitable for cleaning tools and pad printing clichés. Use our pad cleaner to clean the printing pads. | | |
| Auxiliaries | Thinner | Mixing ratio 10-20 % | Thinner VD slow drying |
| | Retarder | Mixing ratio 5-25 % | Thinner VD 3 quick drying |
| | Hardener | Mixing ratio 25 % | Retarder VZ |
| | Leveling agent | Mixing ratio 1-5 % | Hardener BH |
| | | | Leveling agent VL |

This data is based on current technical knowledge and experience. However, due to the wide range of possible influences during processing, they do not exempt the user from carrying out his own tests. No legally binding assurance of specific properties or suitability for a specific application can be derived from our information.

Application technology: If you have any further questions about printing and application technology, please contact our application technology department at any time.

E-Mail: application@tampoprint.de, Tel.: +49 7150 928-351

For your inquiry

B

| Our product range | | | | | | Your needs | |
|------------------------------------|----|-------------|------------------------------|------------------|----------------------------------|------------|-----------|
| Art.-No. | | | Standard ink shade | Container | Contents | Unit | Ink shade |
| 10 | 02 | 01** - 23** | Standard ink shades | 1 Liter | Specific weight 1.2 – 2.0 kg! | | |
| 10 | 02 | 50 | Bronze binder | 1 Liter | | | |
| 10 | 02 | 51 | Black matt | 1 Liter | | | |
| 10 | 02 | 52 | White matt | 1 Liter | | | |
| 10 | 02 | 57 | Ochre yellow matt | 1 Liter | | | |
| 10 | 02 | 74 | Silver | 1 Liter | | | |
| 10 | 02 | 75 | Gold | 1 Liter | | | |
| 10 | 02 | 80 | Process yellow Europe shade | 1 Liter | | | |
| 10 | 02 | 81 | Process magenta Europe shade | 1 Liter | | | |
| 10 | 02 | 82 | Process cyan Europe shade | 1 Liter | | | |
| Other ink shades on request | | | | | | | |
| 10 | 02 | 83 | Transparent paste | 1 Liter | | | |
| Art.-No. | | | Thinner | Container | kg | | |
| 12 | 01 | 01 | VD | 1 Liter | approx. 1 kg | | |
| 12 | 91 | 01 | VD | 5 Liter | approx. 5 kg | | |
| 12 | 01 | 04 | VD 3 | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Retarder | Container | kg | | |
| 12 | 02 | 01 | VZ | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Hardner | Container | kg | | |
| 12 | 02 | 99 | BH | 0,2 Liter | approx. 0,2 kg | | |
| 12 | 53 | 01 | BH | 0,5 Liter | approx. 0,5 kg | | |
| 12 | 03 | 01 | BH | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Leveling agent | | | | |
| 12 | 05 | 01 | VL | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Cleaning agent | Container | kg | | |
| 12 | 04 | 01 | RM | 1 Liter | approx. 1 kg | | |
| 12 | 94 | 01 | RM | 30 Liter | approx. 30 kg | | |
| Art.-No. | | | Pad cleaner | Container | kg | | |
| 12 | 04 | 04 | Pad cleaner | 1 Liter | approx. 1 kg | | |
| 12 | 94 | 05 | Pad cleaner | 5 Liter | approx. 5 kg | | |



Contact

Sale of pad printing ink
 E-Mail: colour@tampoprint.de
 at: tampoprint.com/downloads (Service request forms)

Material safety data sheets:

Please address your inquiries to
colourmsds@tampoprint.de

** To determine the article number, please add the two-digit number of the respective standard ink shade (ink shade card page 10) to the article number and state the complete number in the order.

B/GL 2-component ink, silk gloss

Field of application

Special area of application: Bottles, drinking glasses and glass in general, sanitary industry e.g. fittings.

| | | | |
|----------------------------------|---|-----------------------------|----------------------------|
| Properties | Good coverage, slow drying, suitable for food packaging (outside), air-drying, oven-drying, raster-capable, abrasion-resistant, good mechanical good mechanical resistance. | | |
| Print technical note | In case of flow disturbance, use leveling agent VL (max. 1-5 %). When processing, cans with BH/GL hardener must be sealed airtight immediately after removal. | | |
| Pre-treatment | Parts to be printed must be chemically clean and dust-free. | | |
| Drying | After adding the hardener BH/GL, physical-chemical drying. At room temperature (20-25 °C) approx. 10-15 min. (hand and dust dry). When exposed to heat/air circulation approx. 40-60 sec, max. resistance is achieved by oven drying at 140 °C approx. 20 min. | | |
| Curing | At room temperature (20-25 °C) approx. 5-6 days. | | |
| Pot life | Pot life of the mixed ink approx. 8 hours, after which reduced adhesion and resistance must be expected, even if the ink still appears liquid and processable. | | |
| Ability to over-print | Within 24 hours. | | |
| Please note | The high mechanical and chemical resistance is only achieved after the ink has fully cured or only with oven drying. | | |
| Certification & norms | ■ The safety data sheet in accordance with REACH Regulation (EC) 1907/2006 contains the labeling as well as information on protective measures during processing, storage and disposal. The raw materials used comply with the limit values of the European standard EN 71 (safety of toys) Part 3 (migration of certain elements). | | |
| Cleaning | Our RM cleaning agent is suitable for cleaning tools and pad printing clichés. Use our pad cleaner to clean the printing pads. | | |
| Auxiliaries | Thinner | Mixing ratio 10–20 % | Thinner VD |
| | Hardener | Mixing ratio 5 % | Thinner VD 3 |
| | Leveling agent | Mixing ratio 1–5 % | Hardener BH / GL |
| | | | Hardener BH / GL-02 |
| | | | Leveling agent VL |

This data is based on current technical knowledge and experience. However, due to the wide range of possible influences during processing, they do not exempt the user from carrying out his own tests. No legally binding assurance of specific properties or suitability for a specific application can be derived from our information.

Application technology: If you have any further questions about printing and application technology, please contact our application technology department at any time.

E-Mail: application@tampoprint.de, Tel.: +49 7150 928-351

For your inquiry

B/GL

| Our product range | | | | | | Your needs | |
|------------------------------------|----|-------------|------------------------------|-----------|----------------------------------|------------|-----------|
| Art.-No. | | | Standard ink shade | Container | Contents | Unit | Ink shade |
| 10 | 23 | 01** - 23** | Standard ink shades | 1 Liter | Specific weight 1.2 – 2.0 kg! | | |
| 10 | 23 | 50 | Bronze binder | 1 Liter | | | |
| 10 | 23 | 51 | Silver | 1 Liter | | | |
| 10 | 23 | 52 | Gold | 1 Liter | | | |
| 10 | 23 | 80 | Process yellow Europe shade | 1 Liter | | | |
| 10 | 23 | 81 | Process magenta Europe shade | 1 Liter | | | |
| 10 | 23 | 82 | Process cyan Europe shade | 1 Liter | | | |
| Other ink shades on request | | | | | | | |
| Art.-No. | | | Thinner | Container | kg | | |
| 12 | 01 | 01 | VD | 1 Liter | approx. 1 kg | | |
| 12 | 91 | 01 | VD | 5 Liter | approx. 5 kg | | |
| 12 | 01 | 04 | VD 3 | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Hardener | Container | kg | | |
| 12 | 23 | 00 | BH / GL-02 | 0,2 Liter | approx. 0,2 kg | | |
| 12 | 53 | 00 | BH / GL-02 | 0,5 Liter | approx. 0,5 kg | | |
| 12 | 03 | 00 | BH / GL-02 | 1 Liter | approx. 1 kg | | |
| 12 | 53 | 05 | BH / GL | 0,5 Liter | approx. 0,5 kg | | |
| 12 | 03 | 05 | BH / GL | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Leveling agent | | | | |
| 12 | 05 | 01 | VL | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Cleaning agent | Container | kg | | |
| 12 | 04 | 01 | RM | 1 Liter | approx. 1 kg | | |
| 12 | 94 | 01 | RM | 30 Liter | approx. 30 kg | | |
| Art.-No. | | | Pad cleaner | Container | kg | | |
| 12 | 04 | 04 | Pad cleaner | 1 Liter | approx. 1 kg | | |
| 12 | 94 | 05 | Pad cleaner | 5 Liter | approx. 5 kg | | |



Contact

Sale of pad printing ink
 E-Mail: colour@tampoprint.de
 at: tampoprint.com/downloads (Service request forms)

Material safety data sheets:

Please address your inquiries to
colourmsds@tampoprint.de

** To determine the article number, please add the two-digit number of the respective standard ink shade (ink shade card page 10) to the article number and state the complete number in the order.



Field of application

Universally applicable pad printing ink.

| | | | |
|----------------------------------|--|--|--|
| Properties | High elasticity, glossy, highly opaque and chemically cross-linking due to the addition of hardener. Suitable for food packaging (outside), air drying, oven drying, fast drying, good flow, mechanical resistance. | | |
| Print technical note | During processing and drying of the ink with hardener, make sure that the processing and curing temperature does not fall below 15 °C, otherwise the chemical cross-linking will come to a standstill. Excessive humidity should also be avoided in the first few hours, as the hardener is moisture-sensitive. | | |
| Pre-treatment | All polyolefins (polyethylene, polypropylene). | | |
| Drying | The ink type CFU dries physically by evaporation of the solvents at 20 °C within 5 minutes (touch dry). Chemical drying takes place through the addition of hardener (approx. 36 hours at 21 °C). It is advisable to use heat drying to accelerate the drying of the ink on the substrate. Please note: After heat drying, a cooling section must be provided, otherwise the printed parts may "stick together". | | |
| Curing | At room temperature (20-25 °C) 1-component ink approx. 1 day, 2-component ink approx. 2 days. | | |
| Pot life | 2-component ink: Pot life of the mixed ink 8-12 hours (21 °C). After this time reduced adhesion and resistance, even if the ink still appears liquid and processable. | | |
| Ability to over-print | With 2-component inks, care must be taken to ensure that overprinting is always carried out before complete curing of the ink. Fully cured inks can no longer be overprinted. | | |
| Please note | The high mechanical and chemical resistance is only achieved after the ink has fully cured. | | |
| Certification & norms | ■ The safety data sheet in accordance with REACH Regulation (EC) 1907/2006 contains the labeling as well as information on protective measures during processing, storage and disposal. The raw materials used comply with the limit values of the European standard EN 71 (safety of toys) Part 3 (migration of certain elements). | | |
| Cleaning | Only use RM cleaning agent. All cleaning devices and auxiliaries may only be used for chlorine- and cyclohexanone-free ink, otherwise they will be contaminated with halogen. Use our pad cleaner to clean the printing pads. | | |
| Auxiliaries | Thinner | Mixing ratio 15-25 % | Thinner VDL-K slow drying, Thinner VDL-K 380 very slow drying Thinner VDS-K quick drying Thinner VDN-K standard |
| | Retarder Hardener | Mixing ratio 5-25 % Mixing ratio 10 % | Retarder VZ-K Hardener LMN 3 Hardener LMN 1 |
| | Leveling agent | Mixing ratio max. 0,5–1 % | Leveling agent VL-K |

This data is based on current technical knowledge and experience. However, due to the wide range of possible influences during processing, they do not exempt the user from carrying out his own tests. No legally binding assurance of specific properties or suitability for a specific application can be derived from our information.

Application technology: If you have any further questions about printing and application technology, please contact our application technology department at any time.

E-Mail: application@tampoprint.de, Tel.: +49 7150 928-351

For your inquiry

CFU



| Our product range | | | | | | Your needs | |
|------------------------------------|----|-------------|------------------------------|-----------|-----------------------------------|------------|-----------|
| Art.-No. | | | Standard ink shade | Container | Contents | Unit | Ink shade |
| 13 | 14 | 01** - 23** | Standard ink shades | 1 Liter | Specific weight 1.2 – 2.0 kg/l | | |
| 13 | 14 | 51 | Silver | 1 Liter | | | |
| 13 | 14 | 52 | Gold | 1 Liter | | | |
| 13 | 14 | 80 | Process yellow Europe shade | 1 Liter | 1 kg | | |
| 13 | 14 | 81 | Process magenta Europe shade | 1 Liter | 1 kg | | |
| 13 | 14 | 82 | Process cyan Europe shade | 1 Liter | 1 kg | | |
| Other ink shades on request | | | | | | | |
| Art.-No. | | | Basic inks | Container | kg | | |
| 13 | 14 | 61** - 63** | Basic inks | 1 Liter | 1 kg | | |
| 13 | 14 | 65** - 69** | Basic inks | 1 Liter | 1 kg | | |
| 13 | 14 | 71** - 72** | Basic inks | 1 Liter | 1 kg | | |
| 13 | 14 | 60 | Extender | 1 Liter | 1 kg | | |
| Art.-No. | | | Thinner | Container | kg | | |
| 12 | 01 | 11 | VDL-K | 1 Liter | approx. 1 kg | | |
| 12 | 01 | 24 | VDL-K | 5 Liter | approx. 5 kg | | |
| 12 | 02 | 02 | VDL-K 380 | 1 Liter | approx. 1 kg | | |
| 12 | 01 | 12 | VDS-K | 1 Liter | approx. 1 kg | | |
| 12 | 01 | 13 | VDS-K | 5 Liter | approx. 5 kg | | |
| 12 | 02 | 00 | VDN-K | 1 Liter | approx. 1 kg | | |
| 12 | 02 | 20 | VDN-K | 5 Liter | approx. 5 kg | | |
| Art.-No. | | | Retarder | Container | kg | | |
| 12 | 02 | 08 | VZ-K | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Hardener | Container | kg | | |
| 12 | 03 | 10 | LMN 3 | 0,2 Liter | approx. 0,2 kg | | |
| 12 | 23 | 10 | LMN 3 | 1 Liter | approx. 1 kg | | |
| 12 | 03 | 09 | LMN 1 | 0,2 Liter | approx. 0,2 kg | | |
| 12 | 03 | 02 | LMN 1 | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Leveling agent | | | | |
| 10 | 53 | 50 | VL-K | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Cleaning agent | Container | kg | | |
| 12 | 04 | 01 | RM | 1 Liter | approx. 1 kg | | |
| 12 | 94 | 01 | RM | 30 Liter | approx. 30 kg | | |
| Art.-No. | | | Pad cleaner | Container | kg | | |
| 12 | 04 | 04 | Pad cleaner | 1 Liter | approx. 1 kg | | |
| 12 | 94 | 05 | Pad cleaner | 5 Liter | approx. 5 kg | | |



Contact

Sale of pad printing ink
 E-Mail: colour@tampoprint.de
 at: tampoprint.com/downloads (Service request forms)

Material safety data sheets:

Please address your inquiries to
colourmsds@tampoprint.de

** To determine the article number, please add the two-digit number of the respective standard ink shade (ink shade card page 10) to the article number and state the complete number in the order.

F 1-component ink

Field of application

Printing on metals for which the requirements of a 2-component ink are not decisive.

| | | | |
|----------------------------------|---|--|--|
| Properties | Oven drying, thermoformable, fast drying, good flow, can be welded. | | |
| Print technical note | Printing surfaces must be chemically clean and free of grease. | | |
| Drying | Physically very fast drying, heat shock drying 10-20 seconds. At room temperature (20-25 °C) approx. 1-2 min. hand-dry and dust-dry. | | |
| Curing | At room temperature (20-25 °C) 24 hours. Oven drying: time and temperature depend on the materials to be printed (Reference value: 80 °C approx. 20 min. depending on ink film thickness). | | |
| Ability to over-print | Yes | | |
| Please note | The high mechanical and chemical resistance is only achieved after the ink has fully cured. | | |
| Certification & norms | ■ The safety data sheet in accordance with REACH Regulation (EC) 1907/2006 contains the labeling as well as information on protective measures during processing, storage and disposal. The raw materials used comply with the limit values of the European standard EN 71 (safety of toys) Part 3 (migration of certain elements). | | |
| Cleaning | Our RM cleaning agent is suitable for cleaning tools and pad printing clichés. Use our pad cleaner to clean the printing pads. | | |
| Auxiliaries | Thinner Retarder | Mixing ratio 10–20% Mixing ratio 5-25 % | Thinner VD 2 standard Retarder VZ 3 |

This data is based on current technical knowledge and experience. However, due to the wide range of possible influences during processing, they do not exempt the user from carrying out his own tests. No legally binding assurance of specific properties or suitability for a specific application can be derived from our information.

Application technology: If you have any further questions about printing and application technology, please contact our application technology department at any time.

E-Mail: application@tampoprint.de, Tel.: +49 7150 928-351

For your inquiry

F

| Our product range | | | | | | Your needs | |
|------------------------------------|----|-------------|------------------------------|-----------|----------------------------------|------------|-----------|
| Art.-No. | | | Standard ink shade | Container | Contents | Unit | Ink shade |
| 10 | 06 | 01** - 23** | Standard ink shades | 1 Liter | Specific weight 1.2 – 2.0 kg! | | |
| 10 | 06 | 50 | Bronze binder | 1 Liter | | | |
| 10 | 06 | 51 | Silver | 1 Liter | | | |
| 10 | 06 | 52 | Gold | 1 Liter | | | |
| 10 | 06 | 80 | Process yellow Europe shade | 1 Liter | | | |
| 10 | 06 | 81 | Process magenta Europe shade | 1 Liter | | | |
| 10 | 06 | 82 | Process cyan Europe shade | 1 Liter | | | |
| Other ink shades on request | | | | | | | |
| Art.-No. | | | Thinner | Container | kg | | |
| 12 | 01 | 02 | VD 2 | 1 Liter | approx. 1 kg | | |
| 12 | 91 | 02 | VD 2 | 5 Liter | approx. 5 kg | | |
| Art.-No. | | | Retarder | Container | kg | | |
| 12 | 02 | 03 | VZ 3 | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Cleaning agent | Container | kg | | |
| 12 | 04 | 01 | RM | 1 Liter | approx. 1 kg | | |
| 12 | 94 | 01 | RM | 30 Liter | approx. 30 kg | | |
| Art.-No. | | | Pad cleaner | Container | kg | | |
| 12 | 04 | 04 | Pad cleaner | 1 Liter | approx. 1 kg | | |
| 12 | 04 | 05 | Pad cleaner | 5 Liter | approx. 5 kg | | |



Contact

Sale of pad printing ink
 E-Mail: colour@tampoprint.de
 at: tampoprint.com/downloads (Service request forms)

Material safety data sheets:

Please address your inquiries to
colourmsds@tampoprint.de

** To determine the article number, please add the two-digit number of the respective standard ink shade (ink shade card page 10) to the article number and state the complete number in the order.

GU-N 1- and 2-component ink, silk gloss

Field of application

Pad printing ink type preferably for printing on flexible substrates.

| | | | |
|----------------------------------|---|-----------------------------|----------------------------------|
| Properties | Permanently elastic, air drying, oven drying, thermoformable, fast drying. The print is permanently elastic and largely resists deformation of the substrate. | | |
| Print technical note | As the substrates can differ greatly in terms of their chemical structure and production method, a suitability test must always be carried out. | | |
| Pre-treatment | Pre-treatment must be checked depending on the material to be printed. | | |
| Drying | Physically or chemically drying. At room temperature (20-25 °C) approx. 1-2 min. (hand and dust dry). When exposed to heat approx. 10-20 seconds. | | |
| Curing | 2-component ink approx. 3 days, 1-component ink 24 hours (room temperature 20-25 °C). | | |
| Pot life | GU-N ink can be used as a 1- and 2-component ink. Pot life of the mixed ink at 20 °C approx. 8 hours. | | |
| Ability to over-print | 1-component ink yes, 2-component ink within 24 hours. | | |
| Please note | GU-N can also be used as a 2-component ink for higher mechanical and chemical loads or if greater adhesion is required. | | |
| Certification & norms | ■ The safety data sheet in accordance with REACH Regulation (EC) 1907/2006 contains the labeling as well as information on protective measures during processing, storage and disposal. The raw materials used comply with the limit values of the European standard EN 71 (safety of toys) Part 3 (migration of certain elements). | | |
| Cleaning | Our RM cleaning agent is suitable for cleaning tools and pad printing clichés. Use our pad cleaner to clean the printing pads. | | |
| Auxiliaries | Thinner | Mixing ratio 15–30 % | Thinner VD slow drying |
| | Hardener | Mixing ratio 10 % | Thinner VD 3 quick drying |
| | | | Hardener BH-N |

This data is based on current technical knowledge and experience. However, due to the wide range of possible influences during processing, they do not exempt the user from carrying out his own tests. No legally binding assurance of specific properties or suitability for a specific application can be derived from our information.

Application technology: If you have any further questions about printing and application technology, please contact our application technology department at any time.

E-Mail: application@tampoprint.de, Tel.: +49 7150 928-351

For your inquiry

GU-N

| Our product range | | | | | | Your needs | |
|------------------------------------|----|-------------|------------------------------|-----------|----------------------------------|------------|-----------|
| Art.-No. | | | Standard ink shade | Container | Contents | Unit | Ink shade |
| 13 | 28 | 01** - 23** | Standard ink shades | 1 Liter | Specific weight 1.2 – 2.0 kg! | | |
| 13 | 28 | 50 | Clear coat | 1 Liter | | | |
| 13 | 28 | 51 | Silver | 1 Liter | | | |
| 13 | 28 | 52 | Gold | 1 Liter | | | |
| 13 | 28 | 80 | Process yellow Europe shade | 1 Liter | | | |
| 13 | 28 | 81 | Process magenta Europe shade | 1 Liter | | | |
| 13 | 28 | 82 | Process cyan Europe shade | 1 Liter | | | |
| Other ink shades on request | | | | | | | |
| Art.-No. | | | Thinner | Container | kg | | |
| 12 | 01 | 01 | VD | 1 Liter | approx. 1 kg | | |
| 12 | 91 | 01 | VD | 5 Liter | approx. 5 kg | | |
| 12 | 01 | 04 | VD 3 | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Hardener | Container | kg | | |
| 12 | 53 | 09 | BH-N | 0,2 Liter | approx. 0,2 kg | | |
| 12 | 23 | 08 | BH-N | 0,5 Liter | approx. 0,5 kg | | |
| 12 | 03 | 08 | BH-N | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Cleaning agent | Container | kg | | |
| 12 | 04 | 01 | RM | 1 Liter | approx. 1 kg | | |
| 12 | 94 | 01 | RM | 30 Liter | approx. 30 kg | | |
| Art.-No. | | | Pad cleaner | Container | kg | | |
| 12 | 04 | 04 | Pad cleaner | 1 Liter | approx. 1 kg | | |
| 12 | 04 | 05 | Pad cleaner | 5 Liter | approx. 5 kg | | |



Contact

Sale of pad printing ink
 E-Mail: colour@tampoprint.de
 at: tampoprint.com/downloads (Service request forms)

Material safety data sheets:

Please address your inquiries to
colourmsds@tampoprint.de

** To determine the article number, please add the two-digit number of the respective standard ink shade (ink shade card page 10) to the article number and state the complete number in the order.

L 2-component ink, gloss ink

Field of application

Technical products with very high requirements for chemical stress (e.g. automotive sector).

| | | | |
|----------------------------------|---|-------------------------------|---|
| Properties | Impact resistant, block resistant, air drying, oven drying, raster-capable, abrasion-resistant, drying slow, flow (good), mechanical resistance. | | |
| Print technical note | When processing, cans with LMN 1 hardener must be sealed airtight immediately after removal. | | |
| Pre-treatment | All polyolefins (polyethylene, polypropylene). | | |
| Drying | Chemical-reactive hardening. After adding BH hardener, physical chemical drying. At room temperature (20-25 °C) approx. 5 min. (hand and dust dry). When exposed to heat/air circulation approx. 1-2 min., with thermal diffusion a few seconds. Oven drying: time and temperature depend on the materials to be printed (Reference value: 80 °C approx. 20 min. depending on ink film thickness). | | |
| Curing | At room temperature (20-25 °C) approx. 3-4 days. | | |
| Pot life | Retarder - only use retarder VZ 380. Pot life of the mixed ink at 20 °C approx. 8 hours, after which reduced adhesion and resistance must be expected, even if the ink still appears liquid and processable. | | |
| Ability to over-print | Reactive curing inks have the property of being practically solvent-resistant after curing. Ink type L can only be overprinted within the curing time of approx. 24 hours. The best multi-color prints with superimposed ink areas are achieved with printing units connected in series and intermediate drying stations. | | |
| Please note | The high mechanical and chemical resistance is only achieved after the ink has fully cured. Caution! First add the thinner to the ink and then add the LMN 1 hardener. | | |
| Certification & norms | ■ The safety data sheet in accordance with REACH Regulation (EC) 1907/2006 contains the labeling as well as information on protective measures during processing, storage and disposal. The raw materials used comply with the limit values of the European standard EN 71 (safety of toys) Part 3 (migration of certain elements). | | |
| Cleaning | Our RM cleaning agent is suitable for cleaning tools and pad printing clichés. Use our pad cleaner to clean the printing pads. | | |
| Auxiliaries | Thinner | Mixing ratio 10–20 % | Thinner VDL 380 slow drying Thinner VDS 380 standard Thinner VDS 1015 quick drying |
| | Retarder | Mixing ratio 5-25 % | Retarder VZ 380 |
| | Hardener | Mixing ratio max. 10 % | Hardener LMN 1 (UV resistance) |
| | Leveling agent | Mixing ratio 0,5–1 % | Leveling agent VL |

This data is based on current technical knowledge and experience. However, due to the wide range of possible influences during processing, they do not exempt the user from carrying out his own tests. No legally binding assurance of specific properties or suitability for a specific application can be derived from our information.

Application technology: If you have any further questions about printing and application technology, please contact our application technology department at any time.

E-Mail: application@tampoprint.de, Tel.: +49 7150 928-351

For your inquiry



| Our product range | | | | | | Your needs | |
|------------------------------------|----|-------------|-------------------------------|-----------|----------------------------------|------------|-----------|
| Art.-No. | | | Standard ink shade | Container | Contents | Unit | Ink shade |
| 10 | 11 | 01** - 23** | Standard ink shades | 1 Liter | Specific weight 1.2 – 2.0 kg! | | |
| 10 | 11 | 50 | Clear coat | 1 Liter | | | |
| 10 | 11 | 51 | Silver | 1 Liter | | | |
| 10 | 11 | 52 | Gold | 1 Liter | | | |
| 10 | 11 | 53 | Clear coat matt, UV resistant | 1 Liter | | | |
| Other ink shades on request | | | | | | | |
| Art.-No. | | | Thinner | Container | kg | | |
| 12 | 01 | 05 | VDL 380 | 1 Liter | approx. 1 kg | | |
| 12 | 01 | 06 | VDS 380 | 1 Liter | approx. 1 kg | | |
| 12 | 01 | 08 | VDS 1015 | 1 Liter | approx. 1 kg | | |
| 12 | 01 | 10 | VDS 1015 | 5 Liter | approx. 5 kg | | |
| Art.-No. | | | Retarder | Container | kg | | |
| 12 | 02 | 06 | VZ 380 | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Hardener | Container | kg | | |
| 12 | 03 | 09 | LMN 1 | 0,2 Liter | approx. 0,2 kg | | |
| 12 | 03 | 02 | LMN 1 | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Leveling agent | Container | kg | | |
| 12 | 05 | 01 | VL | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Cleaning agent | Container | kg | | |
| 12 | 04 | 01 | RM | 1 Liter | approx. 1 kg | | |
| 12 | 94 | 01 | RM | 30 Liter | approx. 30 kg | | |
| Art.-No. | | | Pad cleaner | Container | kg | | |
| 12 | 04 | 04 | Pad cleaner | 1 Liter | approx. 1 kg | | |
| 12 | 04 | 05 | Pad cleaner | 5 Liter | approx. 5 kg | | |



Contact

Sale of pad printing ink
 E-Mail: colour@tampoprint.de
 at: tampoprint.com/downloads (Service request forms)

Material safety data sheets:

Please address your inquiries to
colourmsds@tampoprint.de

** To determine the article number, please add the two-digit number of the respective standard ink shade (ink shade card page 10) to the article number and state the complete number in the order.

LOGO 2-component ink, gloss ink

Field of application

Especially for impact-resistant printing on painted golf balls.

| | | | |
|----------------------------------|---|-----------------------------|---|
| Properties | Impact resistant, permanently elastic, coverage (good), air drying, oven drying, raster-capable, abrasion-resistant, slow drying, flow (good), mechanical resistance. | | |
| Print technical note | Only use ink LOGO with hardener BH-N, otherwise the impact resistance cannot be guaranteed. | | |
| Pre-treatment | – | | |
| Drying | Physical chemical drying after adding BH-N hardener. At room temperature (20-25 °C) approx. 15 min. (dry to the touch and dust-dry). When exposed to heat and air circulation approx. 30 seconds. | | |
| Curing | At room temperature approx. 5-6 days. | | |
| Pot life | Pot life of the mixed ink approx. 8 hours. | | |
| Ability to over-print | Within 24 hours. | | |
| Please note | The stated properties are only achieved after complete curing. | | |
| Certification & norms | ■ The safety data sheet in accordance with REACH Regulation (EC) 1907/2006 contains the labeling as well as information on protective measures during processing, storage and disposal. The raw materials used comply with the limit values of the European standard EN 71 (safety of toys) Part 3 (migration of certain elements). | | |
| Cleaning | Our RM cleaning agent is suitable for cleaning tools and pad printing clichés. Use our pad cleaner to clean the printing pads. | | |
| Auxiliaries | Thinner | Mixing ratio 15–30 % | Thinner VD slow drying Thinner VD 3 quick drying |
| | Retarder | Mixing ratio 5-25 % | Retarder VZ |
| | Hardener | Mixing ratio 25 % | Hardener BH-N |
| | Leveling agent | Mixing ratio 1–5 % | Leveling agent VL |

This data is based on current technical knowledge and experience. However, due to the wide range of possible influences during processing, they do not exempt the user from carrying out his own tests. No legally binding assurance of specific properties or suitability for a specific application can be derived from our information.

Application technology: If you have any further questions about printing and application technology, please contact our application technology department at any time.

E-Mail: application@tampoprint.de, Tel.: +49 7150 928-351

For your inquiry

LOGO

| Our product range | | | | | | Your needs | |
|------------------------------------|----|-------------|---------------------|-----------|-----------------------------------|------------|-----------|
| Art.-No. | | | Standard ink shade | Container | Contents | Unit | Ink shade |
| 10 | 00 | 01** - 23** | Standard ink shades | 1 Liter | Specific weight 1,1 – 1,8 kg/l | | |
| 10 | 00 | 51 | Silver | 1 Liter | | | |
| 10 | 00 | 52 | Gold | 1 Liter | | | |
| Other ink shades on request | | | | | | | |
| Art.-No. | | | Thinner | Container | kg | | |
| 12 | 01 | 01 | VD | 1 Liter | approx. 1 kg | | |
| 12 | 91 | 01 | VD | 5 Liter | approx. 5 kg | | |
| 12 | 01 | 04 | VD 3 | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Retarder | Container | kg | | |
| 12 | 02 | 01 | VZ | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Hardener | Container | kg | | |
| 12 | 53 | 09 | BH-N | 0,2 Liter | approx. 0,2 kg | | |
| 12 | 23 | 08 | BH-N | 0,5 Liter | approx. 0,5 kg | | |
| 12 | 03 | 08 | BH-N | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Leveling agent | | | | |
| 12 | 05 | 01 | VL | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Cleaning agent | Container | kg | | |
| 12 | 04 | 01 | RM | 1 Liter | approx. 1 kg | | |
| 12 | 94 | 01 | RM | 30 Liter | approx. 30 kg | | |
| Art.-No. | | | Pad cleaner | Container | kg | | |
| 12 | 04 | 04 | Pad cleaner | 1 Liter | approx. 1 kg | | |
| 12 | 04 | 05 | Pad cleaner | 5 Liter | approx. 5 kg | | |



Contact

Sale of pad printing ink
 E-Mail: colour@tampoprint.de
 at: tampoprint.com/downloads (Service request forms)

Material safety data sheets:

Please address your inquiries to
colourmsds@tampoprint.de

** To determine the article number, please add the two-digit number of the respective standard ink shade (ink shade card page 10) to the article number and state the complete number in the order.

M 2-component ink, gloss ink

Field of application

Technical products, good adhesion on metal.

| | | | |
|----------------------------------|---|-----------------------------|--|
| Properties | Block-resistant, permanently elastic, coverage (good), suitable for food packaging (outside), air drying, oven drying, raster capable, abrasion-resistant, slow drying, flow (good), mechanical resistance. | | |
| Print technical note | In case of flow problems, use flow agent VL. When processing, cans with hardener must be sealed airtight immediately after removal. | | |
| Pre-treatment | Polypropylene, polyethylene, high-pressure and low-pressure polyethylene. | | |
| Drying | Chemically reactive curing. At room temperature (20-25 °C) approx. 2-3 min. (hand and dust dry). Heat shock drying approx. 30 sec, Oven drying: time and temperature depend on the materials to be printed (Reference value: 80 °C approx. 20 min. depending on ink film thickness). | | |
| Curing | At room temperature (20-25 °C) approx. 3-4 days. | | |
| Pot life | Pot life of the mixed ink approx. 12-14 hours. | | |
| Ability to over-print | Within 24 hours. | | |
| Please note | The high mechanical and chemical resistance is only achieved after complete curing of the ink. | | |
| Certification & norms | ■ The safety data sheet in accordance with REACH Regulation (EC) 1907/2006 contains the labeling as well as information on protective measures during processing, storage and disposal. The raw materials used comply with the limit values of the European standard EN 71 (safety of toys) Part 3 (migration of certain elements). | | |
| Cleaning | Our RM cleaning agent is suitable for cleaning tools and pad printing clichés. Use our pad cleaner to clean the printing pads. | | |
| Auxiliaries | Thinner | Mixing ratio 10–20 % | Thinner VDL 380 slow drying Thinner VDL 1015 standard Thinner VDS 1015 quick drying |
| | Retarder | Mixing ratio 5-25 % | Retarder VZ 380 |
| | Hardener | Mixing ratio 20 % | Hardener LMN 3 Hardener LMN 1 (UV resistance) |
| | Leveling agent | Mixing ratio 0,5–1 % | Leveling agent VL |

This data is based on current technical knowledge and experience. However, due to the wide range of possible influences during processing, they do not exempt the user from carrying out his own tests. No legally binding assurance of specific properties or suitability for a specific application can be derived from our information.

Application technology: If you have any further questions about printing and application technology, please contact our application technology department at any time.

E-Mail: application@tampoprint.de, Tel.: +49 7150 928-351

For your inquiry

M

| Our product range | | | | | | Your needs | |
|------------------------------------|----|-------------|---------------------|-----------|----------------------------------|------------|-----------|
| Art.-No. | | | Standard ink shade | Container | Contents | Unit | Ink shade |
| 10 | 12 | 01** - 23** | Standard ink shades | 1 Liter | Specific weight 1.2 – 2.0 kg! | | |
| 10 | 12 | 51 | Silver | 1 Liter | | | |
| 10 | 12 | 52 | Gold | 1 Liter | | | |
| 10 | 12 | 55 | Black matt | 1 Liter | | | |
| Other ink shades on request | | | | | | | |
| Art.-No. | | | Thinner | Container | kg | | |
| 12 | 01 | 05 | VDL 380 | 1 Liter | approx. 1 kg | | |
| 12 | 01 | 07 | VDL 1015 | 1 Liter | approx. 1 kg | | |
| 12 | 91 | 07 | VDL 1015 | 5 Liter | approx. 5 kg | | |
| 12 | 01 | 08 | VDS 1015 | 1 Liter | approx. 1 kg | | |
| 12 | 01 | 10 | VDS 1015 | 5 Liter | approx. 5 kg | | |
| Art.-No. | | | Retarder | Container | kg | | |
| 12 | 02 | 06 | VZ 380 | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Hardener | Container | kg | | |
| 12 | 03 | 10 | LMN 3 | 0,2 Liter | approx. 0,2 kg | | |
| 12 | 23 | 10 | LMN 3 | 1 Liter | approx. 1 kg | | |
| 12 | 03 | 09 | LMN 1 | 0,2 Liter | approx. 0,2 kg | | |
| 12 | 03 | 02 | LMN 1 | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Leveling agent | | | | |
| 12 | 05 | 01 | VL | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Cleaning agent | Container | kg | | |
| 12 | 04 | 01 | RM | 1 Liter | approx. 1 kg | | |
| 12 | 94 | 01 | RM | 30 Liter | approx. 30 kg | | |
| Art.-No. | | | Pad cleaner | Container | kg | | |
| 12 | 04 | 04 | Pad cleaner | 1 Liter | approx. 1 kg | | |
| 12 | 04 | 05 | Pad cleaner | 5 Liter | approx. 5 kg | | |



Contact

Sale of pad printing ink
 E-Mail: colour@tampoprint.de
 at: tampoprint.com/downloads (Service request forms)

Material safety data sheets:

Please address your inquiries to
colourmsds@tampoprint.de

** To determine the article number, please add the two-digit number of the respective standard ink shade (ink shade card page 10) to the article number and state the complete number in the order.

N 2-component ink, gloss ink

Field of application

Sporting goods, tennis rackets, cosmetic products (e.g. shampoo bottles, cream jars), technical products.

| | | | |
|----------------------------------|---|-----------------------------|--|
| Properties | Block-resistant, permanently elastic, coverage (good), suitable for food packaging (outside), air drying, oven drying, raster-capable, abrasion-resistant, slow drying, flow (good), mechanical resistance. | | |
| Print technical note | In case of flow problems, use flow agent VL. When processing, cans with hardener must be sealed airtight immediately after removal. | | |
| Pre-treatment | Polypropylene, polyethylene, high-pressure and low-pressure polyethylene. | | |
| Drying | Chemically reactive curing. At room temperature (20-25 °C) approx. 2-3 min. (hand-dry and dust-dry). Heat shock drying approx. 30 sec., heat shock is recommended. Oven drying: time and temperature depend on the materials to be printed (Reference value: 80 °C approx. 20 min. depending on ink film thickness). | | |
| Curing | At room temperature (20-25 °C) approx. 3-4 days. | | |
| Pot life | Pot life of the mixed ink approx. 12-14 hours. | | |
| Ability to over-print | Within 24 hours. | | |
| Please note | The high mechanical and chemical resistance is only achieved after the complete curing of the ink. | | |
| Certification & norms | ■ The safety data sheet in accordance with REACH Regulation (EC) 1907/2006 contains the labeling as well as information on protective measures during processing, storage and disposal. The raw materials used comply with the limit values of the European standard EN 71 (safety of toys) Part 3 (migration of certain elements). | | |
| Cleaning | Our RM cleaning agent is suitable for cleaning tools and pad printing clichés. Use our pad cleaner to clean the printing pads. | | |
| Auxiliaries | Thinner | Mixing ratio 10–20 % | Thinner VDL 380 slow drying Thinner VDL 1015 standard Thinner VDS 1015 quick drying |
| | Retarder | Mixing ratio 5-25 % | Retarder VZ 380 |
| | Hardener | Mixing ratio 20 % | Hardener LMN 3 Hardener LMN 1 |
| | Leveling agent | Mixing ratio 0,5–1 % | Leveling agent VL |

This data is based on current technical knowledge and experience. However, due to the wide range of possible influences during processing, they do not exempt the user from carrying out his own tests. No legally binding assurance of specific properties or suitability for a specific application can be derived from our information.

Application technology: If you have any further questions about printing and application technology, please contact our application technology department at any time.

E-Mail: application@tampoprint.de, Tel.: +49 7150 928-351

For your inquiry

N

| Our product range | | | | | | Your needs | |
|------------------------------------|----|-------------|------------------------------|------------------|---|------------|-----------|
| Art.-No. | | | Standard ink shade | Container | Contents | Unit | Ink shade |
| 10 | 13 | 01** - 23** | Standard ink shades | 1 Liter | Specific weight 1.2 – 2.0 kg! | | |
| 10 | 13 | 50 | Clear coat | 1 Liter | | | |
| 10 | 13 | 51 | Silver | 1 Liter | | | |
| 10 | 13 | 52 | Gold | 1 Liter | | | |
| 10 | 13 | 53 | Gold brilliant | 1 Liter | | | |
| 10 | 13 | 80 | Process yellow Europe shade | 1 Liter | | | |
| 10 | 13 | 81 | Process magenta Europe shade | 1 Liter | | | |
| 10 | 13 | 82 | Process cyan Europe shade | 1 Liter | | | |
| Other ink shades on request | | | | | | | |
| 10 | 13 | 83 | Transparent paste | 1 Liter | Spezifisches Gewicht 1,2 – 2,0 kg | | |
| Art.-No. | | | Basic inks | Container | | | |
| 10 | 13 | 61** - 72** | Basic inks | 1 Liter | | | |
| 10 | 13 | 60 | Extender N-60 | 1 Liter | | | |
| Art.-No. | | | Thinner | Container | kg | | |
| 12 | 01 | 05 | VDL 380 | 1 Liter | approx. 1 kg | | |
| 12 | 01 | 07 | VDL 1015 | 1 Liter | approx. 1 kg | | |
| 12 | 91 | 07 | VDL 1015 | 5 Liter | approx. 5 kg | | |
| 12 | 01 | 08 | VDS 1015 | 1 Liter | approx. 1 kg | | |
| 12 | 01 | 10 | VDS 1015 | 5 Liter | approx. 5 kg | | |
| Art.-No. | | | Retarder | Container | kg | | |
| 12 | 02 | 06 | VZ 380 | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Hardener | Container | kg | | |
| 12 | 03 | 10 | LMN 3 | 0,2 Liter | approx. 0,2 kg | | |
| 12 | 23 | 10 | LMN 3 | 1 Liter | approx. 1 kg | | |
| 12 | 03 | 09 | LMN 1 | 0,2 Liter | approx. 0,2 kg | | |
| 12 | 03 | 02 | LMN 1 | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Leveling agent | | | | |
| 12 | 05 | 01 | VL | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Cleaning agent | Container | kg | | |
| 12 | 04 | 01 | RM | 1 Liter | approx. 1 kg | | |
| 12 | 94 | 01 | RM | 30 Liter | approx. 30 kg | | |
| Art.-No. | | | Pad cleaner | Container | kg | | |
| 12 | 04 | 04 | Pad cleaner | 1 Liter | approx. 1 kg | | |
| 12 | 04 | 05 | Pad cleaner | 5 Liter | approx. 5 kg | | |



Contact

Sale of pad printing ink
 E-Mail: colour@tampoprint.de
 at: tampoprint.com/downloads (Service request forms)

Material safety data sheets:

Please address your inquiries to
colourmsds@tampoprint.de

** To determine the article number, please add the two-digit number of the respective standard ink shade (ink shade card page 10) to the article number and state the complete number in the order.

P 1- and 2-component ink, gloss ink

Field of application

Medical industry, packaging industry.

| | | | |
|----------------------------------|---|-----------------------------|----------------------------------|
| Properties | Block-resistant, suitable for food packaging (outside), air drying, oven drying, raster-capable, flow (good), mechanical resistance. | | |
| Print technical note | For higher mechanical and chemical loads or if greater adhesion is required, ink type P can also be used as a 2-component printing ink. When processing, cans with BH hardener must be sealed airtight immediately after removal. | | |
| Pre-treatment | All polyolefins. | | |
| Drying | Physically drying and chemically cross-linking. At room temperature (20-25 °C) approx. 2-3 min. (dry to the touch and dust-dry). When exposed to heat/air circulation approx. 30-60 sec. Oven drying: time and temperature depend on the materials to be printed on (Reference value: 80 °C approx. 20 min. depending on ink film thickness). | | |
| Curing | 1-component ink at room temperature (20-25 °C) approx. 24 hours. 2-component ink + hardener BH at room temperature (20-25 °C) 3-4 days. | | |
| Pot life | 2-component ink: Pot life of the mixed ink approx. 10 hours, after which reduced adhesion and resistance must be expected, even if the ink still appears liquid and processable. | | |
| Ability to over-print | 1-component ink always, 2-component ink within 24 hours. | | |
| Please note | – | | |
| Certification & norms | ■ The safety data sheet in accordance with REACH Regulation (EC) 1907/2006 contains the labeling as well as information on protective measures during processing, storage and disposal. The raw materials used comply with the limit values of the European standard EN 71 (safety of toys) Part 3 (migration of certain elements). | | |
| Cleaning | Our RM cleaning agent is suitable for cleaning tools and pad printing clichés. Use our pad cleaner to clean the printing pads. | | |
| Auxiliaries | Thinner | Mixing ratio 10–20 % | Thinner VD slow drying |
| | Retarder | Mixing ratio 5-25 % | Thinner VD 3 quick drying |
| | Hardener | Mixing ratio 10 % | Retarder VZ |
| | Leveling agent | Mixing ratio 1–5 % | Hardener BH |
| | | | Leveling agent VL |

This data is based on current technical knowledge and experience. However, due to the wide range of possible influences during processing, they do not exempt the user from carrying out his own tests. No legally binding assurance of specific properties or suitability for a specific application can be derived from our information.

Application technology: If you have any further questions about printing and application technology, please contact our application technology department at any time.

E-Mail: application@tampoprint.de, Tel.: +49 7150 928-351

For your inquiry

P

| Our product range | | | | | | Your needs | |
|------------------------------------|----|-------------|------------------------------|------------------|----------------------------------|------------|-----------|
| Art.-No. | | | Standard ink shade | Container | Contents | Unit | Ink shade |
| 13 | 09 | 01** - 23** | Standard ink shades | 1 Liter | Specific weight 1.2 – 2.0 kg! | | |
| 13 | 09 | 50 | Clear coat | 1 Liter | | | |
| 13 | 09 | 51 | Silver | 1 Liter | | | |
| 13 | 09 | 52 | Gold | 1 Liter | | | |
| 13 | 09 | 80 | Process yellow Europe shade | 1 Liter | | | |
| 13 | 09 | 81 | Process magenta Europe shade | 1 Liter | | | |
| 13 | 09 | 82 | Process cyan Europe shade | 1 Liter | | | |
| Other ink shades on request | | | | | | | |
| 13 | 09 | 83 | Transparent paste | 1 Liter | | | |
| Art.-No. | | | Thinner | Container | kg | | |
| 12 | 01 | 01 | VD | 1 Liter | approx. 1 kg | | |
| 12 | 91 | 01 | VD | 5 Liter | approx. 5 kg | | |
| 12 | 01 | 04 | VD 3 | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Retarder | Container | kg | | |
| 12 | 02 | 01 | VZ | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Hardener | Container | kg | | |
| 12 | 02 | 99 | BH | 0,2 Liter | approx. 0,2 kg | | |
| 12 | 53 | 01 | BH | 0,5 Liter | approx. 0,5 kg | | |
| 12 | 03 | 01 | BH | 1 Liter | approx. 1 kg | | |
| Art.-Nr. | | | Leveling agent | | | | |
| 12 | 05 | 01 | VL | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Cleaning agent | Container | kg | | |
| 12 | 04 | 01 | RM | 1 Liter | approx. 1 kg | | |
| 12 | 94 | 01 | RM | 30 Liter | approx. 30 kg | | |
| Art.-No. | | | Pad cleaner | Container | kg | | |
| 12 | 04 | 04 | Pad cleaner | 1 Liter | approx. 1 kg | | |
| 12 | 04 | 05 | Pad cleaner | 5 Liter | approx. 5 kg | | |



Contact

Sale of pad printing ink
 E-Mail: colour@tampoprint.de
 at: tampoprint.com/downloads (Service request forms)

Material safety data sheets:

Please address your inquiries to
colourmsds@tampoprint.de

** To determine the article number, please add the two-digit number of the respective standard ink shade (ink shade card page 10) to the article number and state the complete number in the order.

P-AF 1- and 2-component ink, gloss ink

Free of cyclohexanone and phthalates



Field of application

Medical industry, packaging industry.

| | | | |
|----------------------------------|---|--------------------------------|-----------------------------------|
| Properties | Block-resistant, suitable for food packaging (outside), air drying, oven drying, raster-capable, flow (good), mechanical resistance. | | |
| Print technical note | For higher mechanical and chemical loads or if greater adhesion is required, ink type P-AF can also be used as a 2-component printing ink. When processing, cans with BH hardener must be sealed airtight immediately after removal. | | |
| Pre-treatment | All polyolefins (polyethylene, polypropylene). | | |
| Drying | Physically drying and chemically cross-linking. At room temperature (20-25 °C) approx. 2-3 min. (dry to the touch and dust-dry). When exposed to heat/air circulation approx. 30-60 sec. Oven drying: time and temperature depend on the materials to be printed on (Reference value: 80 °C approx. 20 min. depending on ink film thickness). | | |
| Curing | 1-component ink at room temperature (20-25 °C) approx. 24 hours. 2-component ink + hardener BH at room temperature (20-25 °C) 3-4 days. | | |
| Pot life | 2-component ink: Pot life of the mixed ink approx. 10 hours, after which reduced adhesion and resistance must be expected, even if the ink still appears liquid and processable. | | |
| Ability to over-print | 1-component ink always, 2-component ink within 24 hours. | | |
| Please note | – | | |
| Certification & norms | ■ The safety data sheet in accordance with REACH Regulation (EC) 1907/2006 contains the labeling as well as information on protective measures during processing, storage and disposal. The raw materials used comply with the limit values of the European standard EN 71 (safety of toys) Part 3 (migration of certain elements). | | |
| Cleaning | Only use RM cleaning agent. All cleaning devices and auxiliaries may only be used for chlorine- and cyclohexanone-free ink, otherwise they will be contaminated with halogen. Use our pad cleaner to clean the printing pads. | | |
| Auxiliaries | Thinner | Mixing ratio 10–20 % | Thinner VD-HFC slow drying |
| | Retarder | Mixing ratio 5-25 % | Thinner VD 4 quick drying |
| | Hardener | Mixing ratio 10 % | Retarder VZ |
| | Leveling agent | Mixing ratio max. 1–5 % | Hardener BH |
| | | | Leveling agent VL-K |

This data is based on current technical knowledge and experience. However, due to the wide range of possible influences during processing, they do not exempt the user from carrying out his own tests. No legally binding assurance of specific properties or suitability for a specific application can be derived from our information.

Application technology: If you have any further questions about printing and application technology, please contact our application technology department at any time.

E-Mail: application@tampoprint.de, **Tel.:** +49 7150 928-351

For your inquiry

P-AF



| Our product range | | | | | | Your needs | |
|------------------------------------|----|-------------|------------------------------|------------------|----------------------------------|------------|-----------|
| Art.-No. | | | Standard ink shade | Container | Contents | Unit | Ink shade |
| 13 | 10 | 01** - 23** | Standard ink shades | 1 Liter | Specific weight 1.2 – 2.0 kg! | | |
| 13 | 10 | 50 | Clear coat | 1 Liter | | | |
| 13 | 10 | 51 | Silver | 1 Liter | | | |
| 13 | 10 | 52 | Gold | 1 Liter | | | |
| 13 | 10 | 80 | Process yellow Europe shade | 1 Liter | | | |
| 13 | 10 | 81 | Process magenta Europe shade | 1 Liter | | | |
| 13 | 10 | 82 | Process cyan Europe shade | 1 Liter | | | |
| Other ink shades on request | | | | | | | |
| 13 | 09 | 83 | Transparent paste | 1 Liter | | | |
| Art.-No. | | | Thinner | Container | kg | | |
| 10 | 50 | 45 | VD-HCF | 1 Liter | approx. 1 kg | | |
| 12 | 01 | 34 | VD 4 | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Retarder | Container | kg | | |
| 12 | 02 | 01 | VZ | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Hardener | Container | kg | | |
| 12 | 02 | 99 | BH | 0,2 Liter | approx. 0,2 kg | | |
| 12 | 53 | 01 | BH | 0,5 Liter | approx. 0,5 kg | | |
| 12 | 03 | 01 | BH | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Leveling agent | | | | |
| 10 | 53 | 50 | VL-K | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Cleaning agent | Container | kg | | |
| 12 | 04 | 01 | RM | 1 Liter | approx. 1 kg | | |
| 12 | 94 | 01 | RM | 30 Liter | approx. 30 kg | | |
| Art.-No. | | | Pad cleaner | Container | kg | | |
| 12 | 04 | 04 | Pad cleaner | 1 Liter | approx. 1 kg | | |
| 12 | 04 | 05 | Pad cleaner | 5 Liter | approx. 5 kg | | |



Contact

Sale of pad printing ink
 E-Mail: colour@tampoprint.de
 at: tampoprint.com/downloads (Service request forms)

Material safety data sheets:

Please address your inquiries to
colourmsds@tampoprint.de

** To determine the article number, please add the two-digit number of the respective standard ink shade (ink shade card page 10) to the article number and state the complete number in the order.

RDF-H

1- and 2-component ink, rotary printing, gloss ink

Halogen-free (without chlorine), free of aromatics and cyclohexanone



Field of application

Special halogen-free rotary pad printing ink, mainly for printing on bottle caps made of polyethylene and polypropylene. It can also be used for classic pad printing. The RDF-HF ink series is also suitable for printing on the outside of food packaging, provided that the inks are applied properly and professionally.

| | | | |
|----------------------------------|---|---|--|
| Properties | Impact resistant, block resistant, coverage (good), suitable for food packaging (outside), air drying, oven drying, abrasion-resistant, stackable, fast drying, flow (good). | | |
| Print technical note | Please note that the screen and etching depth of the cliché cylinder and the printing speed of the rotary pad printing machine have an influence on the printing result. | | |
| Pre-treatment | All polyolefins (polyethylene, polypropylene). | | |
| Drying | Physically drying, chemically cross-linking. Air drying (21 °C) approx. 5 min. (hand and dust dry). Heat shock drying approx. 2-3 sec. (infrared drying or hot air blower). | | |
| Curing | 1-component ink - 1 day at room temperature (approx. 21 °C). 2-component ink - 3 days at room temperature (approx. 21 °C). | | |
| Pot life | Pot life of the ink mixed with hardener approx. 8 hours. Leveling agent VL-K as required. | | |
| Ability to over-print | 1-component ink yes, 2-component ink within 24 hours. | | |
| Please note | For higher mechanical and chemical loads or if greater adhesion is required, ink type RDF-HF can also be used as a 2-component ink. | | |
| Certification & norms | ■ The safety data sheet in accordance with REACH Regulation (EC) 1907/2006 contains the labeling as well as information on protective measures during processing, storage and disposal. The raw materials used comply with the limit values of the European standard EN 71 (safety of toys) Part 3 (migration of certain elements). | | |
| Cleaning | Only use RM cleaning agent. All cleaning devices and auxiliaries may only be used for chlorine- and cyclohexanone-free ink, otherwise they will be contaminated with halogen. Use our pad cleaner to clean the printing pads. | | |
| Auxiliaries | Thinner | Mixing ratio 10–20 % | Thinner VDL-K slow drying Thinner VDN-K Thinner VDS-K quick drying Thinner VDR-HF (for rotary printing) |
| | Hardener Leveling agent | Mixing ratio 10 % Mixing ratio 0,5–1 % | Hardener LMN 3 Leveling agent VL-K |

This data is based on current technical knowledge and experience. However, due to the wide range of possible influences during processing, they do not exempt the user from carrying out his own tests. No legally binding assurance of specific properties or suitability for a specific application can be derived from our information.

Application technology: If you have any further questions about printing and application technology, please contact our application technology department at any time.

E-Mail: application@tampoprint.de, Tel.: +49 7150 928-351

For your inquiry

RDF-HF



| Our product range | | | | | | Your needs | |
|------------------------------------|----|-------------|------------------------------|-----------|----------------|------------|-----------|
| Art.-No. | | | Standard ink shade | Container | Contents | Unit | Ink shade |
| 49 | 04 | 01** - 10** | Standard ink shades | 1 Liter | 1 kg | | |
| 49 | 04 | 12** - 13** | Standard ink shades | 1 Liter | 1 kg | | |
| 49 | 04 | 15** - 20** | Standard ink shades | 1 Liter | 1 kg | | |
| 49 | 04 | 22 | Light brown | 1 Liter | 1 kg | | |
| 49 | 04 | 51 | Silver | 1 Liter | 1 kg | | |
| 49 | 04 | 52 | Gold | 1 Liter | 1 kg | | |
| 49 | 04 | 50 | Clear coat | 1 Liter | 1 kg | | |
| Other ink shades on request | | | | | | | |
| Art.-No. | | | Thinner | Container | kg | | |
| 12 | 01 | 11 | VDL-K | 1 Liter | approx. 1 kg | | |
| 12 | 01 | 24 | VDL-K | 5 Liter | approx. 5 kg | | |
| 12 | 02 | 00 | VDN-K | 1 Liter | approx. 1 kg | | |
| 12 | 01 | 12 | VDS-K | 1 Liter | approx. 1 kg | | |
| 12 | 01 | 13 | VDS-K | 5 Liter | approx. 5 kg | | |
| 49 | 91 | 01 | VDR-HF (for rotary printing) | 1 Liter | approx. 1 kg | | |
| 49 | 91 | 02 | VDR-HF (for rotary printing) | 5 Liter | approx. 5 kg | | |
| Art.-No. | | | Hardener | Container | kg | | |
| 12 | 03 | 10 | LMN 3 | 0,2 Liter | approx. 0,2 kg | | |
| 12 | 23 | 10 | LMN 3 | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Leveling agent | | | | |
| 10 | 53 | 50 | VL-K | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Cleaning agent | Container | kg | | |
| 12 | 04 | 01 | RM | 1 Liter | approx. 1 kg | | |
| 12 | 94 | 01 | RM | 30 Liter | approx. 30 kg | | |
| Art.-No. | | | Pad cleaner | Container | kg | | |
| 12 | 04 | 04 | Pad cleaner | 1 Liter | approx. 1 kg | | |
| 12 | 04 | 05 | Pad cleaner | 5 Liter | approx. 5 kg | | |



Contact

Sale of pad printing ink
 E-Mail: colour@tampoprint.de
 at: tampoprint.com/downloads (Service request forms)

Material safety data sheets:

Please address your inquiries to
colourmsds@tampoprint.de

** To determine the article number, please add the two-digit number of the respective standard ink shade (ink shade card page 10) to the article number and state the complete number in the order.

S 2-component ink, gloss ink

Field of application

Automotive sector (engine compartment panels), badges.

| | | | |
|----------------------------------|---|-----------------------------|--|
| Properties | Permanently elastic, coverage (good), suitable for food packaging (outside), air drying, oven drying, raster capable, abrasion-resistant, quick drying, leveling (good), mechanical resistance. | | |
| Print technical note | – | | |
| Pre-treatment | The surfaces to be printed must be free of grease or other residues. | | |
| Drying | Chemical-reactive curing. At room temperature (20-25 °C) approx. 2-3 min. (hand and dust dry). Heat shock drying approx. 30 sec., Oven drying: time and temperature depending on the materials to be printed (Reference value: 80 °C approx. 20 min. depending on the thickness of the ink film). | | |
| Curing | 72 hours at room temperature 20-25 °C. | | |
| Pot life | Pot life of the mixed ink at 20 °C approx. 8 hours. Due to a higher proportion of pigments in special inks, the pot life may be shorter compared to standard inks. | | |
| Ability to over-print | Reactive curing inks have the property of being practically solvent-resistant after curing. Ink type S can only be overprinted within approx. 6 hours. | | |
| Please note | The high mechanical and chemical resistance is only achieved after the complete curing of the ink. | | |
| Certification & norms | ■ The safety data sheet in accordance with REACH Regulation (EC) 1907/2006 contains the labeling as well as information on protective measures during processing, storage and disposal. The raw materials used comply with the limit values of the European standard EN 71 (safety of toys) Part 3 (migration of certain elements). | | |
| Cleaning | Our RM cleaning agent is suitable for cleaning tools and pad printing clichés. Use our pad cleaner to clean the printing pads. | | |
| Auxiliaries | Thinner | Mixing ratio 10–20 % | Thinner VDL 380 slow drying Thinner VDL 1015 standard Thinner VDS 1015 quick drying |
| | Retarder | Mixing ratio 5-25 % | Retarder VZ 380 |
| | Hardener | Mixing ratio 10 % | Hardener LMN 1 (UV resistance) |
| | Leveling agent | Mixing ratio 0,5–1 % | Leveling agent VL |

This data is based on current technical knowledge and experience. However, due to the wide range of possible influences during processing, they do not exempt the user from carrying out his own tests. No legally binding assurance of specific properties or suitability for a specific application can be derived from our information.

Application technology: If you have any further questions about printing and application technology, please contact our application technology department at any time.

E-Mail: application@tampoprint.de, Tel.: +49 7150 928-351

For your inquiry

S

| Our product range | | | | | | Your needs | |
|------------------------------------|----|-------------|------------------------------|-----------|----------------------------------|------------|-----------|
| Art.-No. | | | Standard ink shade | Container | Contents | Unit | Ink shade |
| 10 | 18 | 01** - 23** | Standard ink shades | 1 Liter | Specific weight 1.2 – 2.0 kg! | | |
| 10 | 18 | 50 | Clear coat | 1 Liter | | | |
| 10 | 18 | 51 | Silver | 1 Liter | | | |
| 10 | 18 | 52 | Gold | 1 Liter | | | |
| 10 | 18 | 80 | Process yellow Europe shade | 1 Liter | | | |
| 10 | 18 | 81 | Process magenta Europe shade | 1 Liter | | | |
| 10 | 18 | 82 | Process cyan Europe shade | 1 Liter | | | |
| Other ink shades on request | | | | | | | |
| Art.-No. | | | Thinner | Container | kg | | |
| 12 | 01 | 05 | VDL 380 | 1 Liter | approx. 1 kg | | |
| 12 | 01 | 07 | VDL 1015 | 1 Liter | approx. 1 kg | | |
| 12 | 91 | 07 | VDL 1015 | 5 Liter | approx. 5 kg | | |
| 12 | 01 | 08 | VDS 1015 | 1 Liter | approx. 1 kg | | |
| 12 | 01 | 10 | VDS 1015 | 5 Liter | approx. 5 kg | | |
| Art.-No. | | | Retarder | Container | kg | | |
| 12 | 02 | 06 | VZ 380 | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Hardener | Container | kg | | |
| 12 | 03 | 09 | LMN 1 | 0,2 Liter | approx. 0,2 kg | | |
| 12 | 03 | 02 | LMN 1 | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Leveling agent | | | | |
| 12 | 05 | 01 | VL | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Cleaning agent | Container | kg | | |
| 12 | 04 | 01 | RM | 1 Liter | approx. 1 kg | | |
| 12 | 94 | 01 | RM | 30 Liter | approx. 30 kg | | |
| Art.-No. | | | Pad cleaner | Container | kg | | |
| 12 | 04 | 04 | Pad cleaner | 1 Liter | approx. 1 kg | | |
| 12 | 04 | 05 | Pad cleaner | 5 Liter | approx. 5 kg | | |



Contact

Sale of pad printing ink
 E-Mail: colour@tampoprint.de
 at: tampoprint.com/downloads (Service request forms)

Material safety data sheets:

Please address your inquiries to
colourmsds@tampoprint.de

** To determine the article number, please add the two-digit number of the respective standard ink shade (ink shade card page 10) to the article number and state the complete number in the order.

TH-G 1-component ink, gloss ink

Field of application

Special pad printing ink for stoving on surfaces that are exposed to high temperatures.

| | | | |
|----------------------------------|---|------------------------------|--------------------------------------|
| Properties | Permanently elastic, coverage (good), oven drying, fast drying, flow (good), mechanical resistance. Curing in the curing oven leads to a chemical bond and is a prerequisite for the above-mentioned properties. | | |
| Print technical note | In pad printing, the inks can be processed in both "open" and "hermetic" systems. | | |
| Pre-treatment | – | | |
| Drying | Physical drying and subsequent oven drying with chemical cross-linking. Drying data: 40 min. at 180 °C or 20 min. at 200 °C. | | |
| Curing | Oven drying: 40 min. at 180 °C or 20 min. at 200 °C. | | |
| Pot life | When using glass bonding agent HV-G 8 hours pot life at 20-25 °C. | | |
| Ability to over-print | For multi-color printing (overprinting), intermediate drying with infrared rays or hot/cold air blowers is recommended. Final drying takes place in a curing oven at 180 °C within 30 minutes. | | |
| Please note | Glass adhesion promoter (max. 2 %) should be used to achieve better adhesion to glass. At a room temperature of approx. 20 °C, the pot life is approx. 8 hours. | | |
| Certification & norms | ■ The safety data sheet in accordance with REACH Regulation (EC) 1907/2006 contains the labeling as well as information on protective measures during processing, storage and disposal. The raw materials used comply with the limit values of the European standard EN 71 (safety of toys) Part 3 (migration of certain elements). | | |
| Cleaning | Our RM cleaning agent is suitable for cleaning tools and pad printing clichés. Use our pad cleaner to clean the printing pads. | | |
| Auxiliaries | Thinner | Mixing ratio 15–25 % | Thinner VDL 1015 slow drying |
| | Retarder | Mixing ratio 5-25 % | Thinner VDS 1015 quick drying |
| | Glass bonding agent | Mixing ratio max. 2 % | Retarder VZ 380 |
| | | | Glass bonding agent HV-G |

This data is based on current technical knowledge and experience. However, due to the wide range of possible influences during processing, they do not exempt the user from carrying out his own tests. No legally binding assurance of specific properties or suitability for a specific application can be derived from our information.

Application technology: If you have any further questions about printing and application technology, please contact our application technology department at any time.

E-Mail: application@tampoprint.de, Tel.: +49 7150 928-351

For your inquiry

TH-G

| Our product range | | | | | | Your needs | |
|-----------------------------|----|----|--------------------|-----------|-----------------|------------|-----------|
| Art.-No. | | | Standard ink shade | Container | Contents | Unit | Ink shade |
| 10 | 62 | 80 | Black | 1 Liter | Specific weight | | |
| 10 | 62 | 81 | Black matt | 1 Liter | 1.0 – 1.5 kg! | | |
| Other ink shades on request | | | | | | | |
| Art.-No. | | | Thinner | Container | kg | | |
| 12 | 01 | 07 | VDL 1015 | 1 Liter | approx. 1 kg | | |
| 12 | 91 | 07 | VDL 1015 | 5 Liter | approx. 5 kg | | |
| 12 | 01 | 08 | VDS 1015 | 1 Liter | approx. 1 kg | | |
| 12 | 01 | 10 | VDS 1015 | 5 Liter | approx. 5 kg | | |
| Art.-No. | | | Retarder | Container | kg | | |
| 12 | 02 | 06 | VZ 380 | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Bonding agent | Container | kg | | |
| 12 | 05 | 05 | HV-G | 0,1 Liter | approx. 0,1 kg | | |
| 12 | 05 | 00 | HV-G | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Cleaning agent | Container | kg | | |
| 12 | 04 | 01 | RM | 1 Liter | approx. 1 kg | | |
| 12 | 94 | 01 | RM | 30 Liter | approx. 30 kg | | |
| Art.-No. | | | Pad cleaner | Container | kg | | |
| 12 | 04 | 04 | Pad cleaner | 1 Liter | approx. 1 kg | | |
| 12 | 04 | 05 | Pad cleaner | 5 Liter | approx. 5 kg | | |



Contact

Sale of pad printing ink
 E-Mail: colour@tampoprint.de
 at: tampoprint.com/downloads (Service request forms)

Material safety data sheets:

Please address your inquiries to
colourmsds@tampoprint.de

** To determine the article number, please add the two-digit number of the respective standard ink shade (ink shade card page 10) to the article number and state the complete number in the order.

TP-CD 1- and 2-component ink, gloss ink

Field of application

Often used for painted and powder-coated surfaces, e.g. suspension struts.

| | | | |
|----------------------------------|---|----------------------------|----------------------------------|
| Properties | Air drying, oven drying, fast drying. | | |
| Print technical note | It should be noted that the raster and the etching depth of the pad printing plate as well as the shape and hardness (Shore) of the printing pad and the printing speed of the pad printing machine have an influence on the printing result. | | |
| Pre-treatment | The pre-treatment of polyethylene (PE) or polypropylene (PP), which is essential to ensure adhesion, is carried out by flame treatment, corona discharge or plasma processes. | | |
| Drying | At room temperature (20-25 °C) approx. 1-2 min. (hand and dust dry). Shock drying: (infrared) 5-10 sec. Oven drying: Time and temperature depend on the materials to be printed on (Reference value: 80 °C approx. 20 min. depending on ink film thickness) | | |
| Curing | 1-component ink: At room temperature (20-25 °C) 1 day. 2-component ink: At room temperature (20-25 °C) 3-5 days. | | |
| Pot life | Retarding - only use retarder TP-D. Pot life of the mixed ink approx. 8 hours. | | |
| Ability to over-print | 1-component ink: Yes. 2-component ink: Within 1 day. | | |
| Please note | TP-CD inks can also be used as 2-component inks if they are subject to higher mechanical and chemical loads or if greater adhesion is required. | | |
| Certification & norms | ■ The safety data sheet in accordance with REACH Regulation (EC) 1907/2006 contains the labeling as well as information on protective measures during processing, storage and disposal. The raw materials used comply with the limit values of the European standard EN 71 (safety of toys) Part 3 (migration of certain elements). | | |
| Cleaning | Our RM cleaning agent is suitable for cleaning tools and pad printing clichés. Use our pad cleaner to clean the printing pads. | | |
| Auxiliaries | Thinner | Mixing ratio 0-30 % | Thinner CDV slow drying |
| | Retarder | Mixing ratio 5-25 % | Thinner VD 3 quick drying |
| | Hardener | Mixing ratio 10 % | Retarder TP-D |
| | Leveling agent | Mixing ratio 1-5 % | Hardener BH |
| | | | Leveling agent VL |

This data is based on current technical knowledge and experience. However, due to the wide range of possible influences during processing, they do not exempt the user from carrying out his own tests. No legally binding assurance of specific properties or suitability for a specific application can be derived from our information.

Application technology: If you have any further questions about printing and application technology, please contact our application technology department at any time.

E-Mail: application@tampoprint.de, Tel.: +49 7150 928-351

For your inquiry

TP-CD

| Our product range | | | | | | Your needs | |
|------------------------------------|----|-------------|------------------------------|-----------|----------------------------------|------------|-----------|
| Art.-No. | | | Standard ink shade | Container | Contents | Unit | Ink shade |
| 13 | 25 | 01** - 23** | Standard ink shades | 1 Liter | Specific weight 1.2 – 2.0 kg! | | |
| 13 | 25 | 50 | Clear coat | 1 Liter | | | |
| 13 | 25 | 51 | Silver | 1 Liter | | | |
| 13 | 25 | 52 | Gold | 1 Liter | | | |
| 13 | 25 | 80 | Process yellow Europe shade | 1 Liter | | | |
| 13 | 25 | 81 | Process magenta Europe shade | 1 Liter | | | |
| 13 | 25 | 82 | Process cyan Europe shade | 1 Liter | | | |
| Other ink shades on request | | | | | | | |
| Art.-No. | | | Thinner | Container | kg | | |
| 12 | 01 | 09 | CDV | 1 Liter | approx. 1 kg | | |
| 12 | 01 | 04 | VD 3 | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Retarder | Container | kg | | |
| 12 | 02 | 07 | TP-D | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Hardener | Container | kg | | |
| 12 | 02 | 99 | BH | 0,2 Liter | approx. 0,2 kg | | |
| 12 | 53 | 01 | BH | 0,5 Liter | approx. 0,5 kg | | |
| 12 | 03 | 01 | BH | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Leveling agent | | | | |
| 12 | 05 | 01 | VL | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Cleaning agent | Container | kg | | |
| 12 | 04 | 01 | RM | 1 Liter | approx. 1 kg | | |
| 12 | 94 | 01 | RM | 30 Liter | approx. 30 kg | | |
| Art.-No. | | | Pad cleaner | Container | kg | | |
| 12 | 04 | 04 | Pad cleaner | 1 Liter | approx. 1 kg | | |
| 12 | 04 | 05 | Pad cleaner | 5 Liter | approx. 5 kg | | |



Contact

Sale of pad printing ink
 E-Mail: colour@tampoprint.de
 at: tampoprint.com/downloads (Service request forms)

Material safety data sheets:

Please address your inquiries to
colourmsds@tampoprint.de

** To determine the article number, please add the two-digit number of the respective standard ink shade (ink shade card page 10) to the article number and state the complete number in the order.

TP-PP 1-component ink, gloss ink

Field of application

Special pad printing ink type for printing on PP material without pre-treatment.

| | | | |
|----------------------------------|---|----------------------------|-------------------------------------|
| Properties | Coverage (good), suitable for food packaging (outside), air drying, oven drying, mechanical resistance. | | |
| Print technical note | It should be noted that there must be a cooling section after heat drying, otherwise the printed parts may stick together. As the substrates can differ greatly in terms of their chemical composition and production method, a suitability test must always be carried out. In particular, antistatic additives as well as release agents and lubricants can have a negative effect on ink adhesion. | | |
| Drying | At room temperature (20-25 °C) approx. 2-3 minutes (dry to the touch and dust-dry). To accelerate the drying of the ink on the substrate, it is advisable to use a hot air blower or infrared radiator. | | |
| Drying | At room temperature (20-25 °C) approx. 1 day. | | |
| Ability to over-print | Yes | | |
| Please note | Ink type TP-PP is only available to order. Not available from stock. | | |
| Certification & norms | ■ The safety data sheet in accordance with REACH Regulation (EC) 1907/2006 contains the labeling as well as information on protective measures during processing, storage and disposal. The raw materials used comply with the limit values of the European standard EN 71 (safety of toys) Part 3 (migration of certain elements). | | |
| Cleaning | Our RM cleaning agent is suitable for cleaning tools and pad printing clichés. Use our pad cleaner to clean the printing pads. | | |
| Auxiliaries | Thinner | Mixing ratio 15-20% | Thinner VD-PP/S quick drying |
| | Retarder | Mixing ratio 5-25 % | Thinner VD-PP/L slow drying |
| | Leveling agent | Mixing ratio 1-5% | Retarder VZ-PP |
| | | | Leveling agent VL |

This data is based on current technical knowledge and experience. However, due to the wide range of possible influences during processing, they do not exempt the user from carrying out his own tests. No legally binding assurance of specific properties or suitability for a specific application can be derived from our information.

Application technology: If you have any further questions about printing and application technology, please contact our application technology department at any time.

E-Mail: application@tampoprint.de, Tel.: +49 7150 928-351

For your inquiry

TP-PP

| Our product range | | | | | | Your needs | |
|-----------------------------|----|-------------|----------------------|-----------|-----------------|------------|-----------|
| Art.-No. | | | Standard ink shade | Container | Contents | Unit | Ink shade |
| 10 | 15 | 01** - 23** | Standard ink shades* | 1 Liter | Specific weight | | |
| 10 | 57 | 36 | Bronze binder | 1 Liter | 1.2 – 2.0 kg! | | |
| Other ink shades on request | | | | | | | |
| Art.-No. | | | Thinner | Container | kg | | |
| 12 | 01 | 32 | VD-PP/L | 1 Liter | approx. 1 kg | | |
| 12 | 01 | 33 | VD-PP/S | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Retarder | Container | kg | | |
| 12 | 02 | 10 | VZ-PP | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Leveling agent | | | | |
| 12 | 05 | 01 | VL | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Cleaning agent | Container | kg | | |
| 12 | 04 | 01 | RM | 1 Liter | approx. 1 kg | | |
| 12 | 94 | 01 | RM | 30 Liter | approx. 30 kg | | |
| Art.-No. | | | Pad cleaner | Container | kg | | |
| 12 | 04 | 04 | Pad cleaner | 1 Liter | approx. 1 kg | | |
| 12 | 04 | 05 | Pad cleaner | 5 Liter | approx. 5 kg | | |

* Attention! Not available from stock. Standard inks on request.



Contact

Sale of pad printing ink
 E-Mail: colour@tampoprint.de
 at: tampoprint.com/downloads (Service request forms)

Material safety data sheets:

Please address your inquiries to
colourmsds@tampoprint.de

** To determine the article number, please add the two-digit number of the respective standard ink shade (ink shade card page 10) to the article number and state the complete number in the order.

U-HF

1- and 2-component ink, gloss ink

Halogen-free (without chlorine), free of aromatics and cyclohexanone

Field of application

Used in "open" and "hermetic" pad printing systems. Often used in medical technology, household appliances and PA substrates.

| | | | |
|----------------------------------|--|-----------------------------|--|
| Properties | The inks in the U-HF series are suitable for printing on a side of the packaging facing away from the food, provided that the inks are applied properly and professionally. Advertising materials industry, toy industry, medical technology, closure caps. | | |
| Print technical note | During processing and drying of the ink with hardener, care must be taken to ensure that the processing and curing temperature does not fall below 15 °C, as otherwise chemical cross-linking will come to a standstill. Excessive humidity should also be avoided in the first few hours, as the hardener is moisture-sensitive. | | |
| Pre-treatment | The pre-treatment of polyethylene (PE) or polypropylene (PP), which is essential to ensure adhesion, is carried out by flame treatment, corona discharge or plasma process. | | |
| Drying | The drying behavior of the U-HF ink series during the printing process is of decisive importance for the printing result. Physically drying and chemically cross-linking. At room temperature (21 °C) approx. 5 min., 50 °C within 2 min., heat shock drying in 2-3 seconds (both hand and dust dry). To accelerate the drying of the ink on the substrate, it is advisable to use a hot air blower or infrared radiator. | | |
| Curing | 1-component ink = 1 day, 2-component ink = 3-4 days. | | |
| Pot life | Pot life of mixed ink approx. 8 hours. | | |
| Ability to over-print | 1-component ink yes, 2-component ink within 24 hours. | | |
| Please note | See cleaning instructions! | | |
| Certification & norms | ■ The safety data sheet in accordance with REACH Regulation (EC) 1907/2006 contains the labeling as well as information on protective measures during processing, storage and disposal. The raw materials used comply with the limit values of the European standard EN 71 (safety of toys) Part 3 (migration of certain elements). | | |
| Cleaning | Only use RM cleaning agent. All cleaning devices and auxiliaries may only be used for chlorine- and cyclohexanone-free ink, otherwise they will be contaminated with halogen. Use our pad cleaner to clean the printing pads. | | |
| Auxiliaries | Thinner | Mixing ratio 10-30 % | Thinner VDL-K Thinner VDL-K 380 Thinner VDS-K Thinner VDN-K |
| | Retarder | Mixing ratio 5-25 % | Retarder VZ-K |
| | Hardener | Mixing ratio 10 % | Hardener LMN 3 |
| | Leveling agent | Mixing ratio 0,5-1 % | Leveling agent VL-K |

This data is based on current technical knowledge and experience. However, due to the wide range of possible influences during processing, they do not exempt the user from carrying out his own tests. No legally binding assurance of specific properties or suitability for a specific application can be derived from our information.

Application technology: If you have any further questions about printing and application technology, please contact our application technology department at any time.

E-Mail: application@tampoprint.de, Tel.: +49 7150 928-351

For your inquiry

U-HF

| Our product range | | | | | | Your needs | |
|------------------------------------|----|-------------|----------------------|-----------|----------------|------------|-----------|
| Art.-No. | | | Standard ink shade | Container | Contents | Unit | Ink shade |
| 10 | 10 | 01** - 20** | Standardf ink shades | 1 Liter | 1 kg | | |
| 10 | 10 | 22** - 23** | Standardf ink shades | 1 Liter | 1 kg | | |
| 10 | 10 | 51 | Silver | 1 Liter | 1 kg | | |
| 10 | 10 | 52 | Gold | 1 Liter | 1 kg | | |
| 10 | 10 | 60 | Clear coat | 1 Liter | 1 kg | | |
| Other ink shades on request | | | | | | | |
| Art.-No. | | | Thinner | Container | kg | | |
| 12 | 01 | 11 | VDL-K | 1 Liter | approx. 1 kg | | |
| 12 | 01 | 24 | VDL-K | 5 Liter | approx. 5 kg | | |
| 12 | 02 | 02 | VDL-K 380 | 1 Liter | approx. 1 kg | | |
| 12 | 01 | 12 | VDS-K | 1 Liter | approx. 1 kg | | |
| 12 | 01 | 13 | VDS-K | 5 Liter | approx. 5 kg | | |
| 12 | 02 | 00 | VDN-K | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Retarder | Container | kg | | |
| 12 | 02 | 08 | VZ-K | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Hardener | Container | kg | | |
| 12 | 03 | 10 | LMN 3 | 0,2 Liter | approx. 0,2 kg | | |
| 12 | 23 | 10 | LMN 3 | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Leveling agent | | | | |
| 12 | 53 | 50 | VL-K | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Cleaning agent | Container | kg | | |
| 12 | 04 | 01 | RM | 1 Liter | approx. 1 kg | | |
| 12 | 94 | 01 | RM | 30 Liter | approx. 30 kg | | |
| Art.-No. | | | Pad cleaner | Container | kg | | |
| 12 | 04 | 04 | Pad cleaner | 1 Liter | approx. 1 kg | | |
| 12 | 04 | 05 | Pad cleaner | 5 Liter | approx. 5 kg | | |



Contact

Sale of pad printing ink
 E-Mail: colour@tampoprint.de
 at: tampoprint.com/downloads (Service request forms)

Material safety data sheets:

Please address your inquiries to
colourmsds@tampoprint.de

** To determine the article number, please add the two-digit number of the respective standard ink shade (ink shade card page 10) to the article number and state the complete number in the order.

UV-RDF

1-component ink, gloss ink

Available as matt ink on request

Field of application

The UV-RDF is very reactive. Suitable for high-speed pad printing systems.
Rotary pad printing, but also for "hermetic" and "open" pad printing systems.

| | |
|----------------------------------|--|
| Properties | Impact-resistant, block-resistant, permanently elastic, coverage (good), suitable for food packaging (outside), raster capable, abrasion-resistant, stackable, thermoformable, flow (good), mechanical resistance. |
| Print technical note | If printing defects occur (haloing) = addition: 5 % to max. 10 % UV-RDF printing additive. It should be noted that the screening and etching depth of the pad printing cliché, the shape and hardness (Shore) of the printing pad, the printing speed of the pad printing machine and the intensity of the lamp all have an influence on the print result. |
| Pre-treatment | Absolutely necessary to ensure ink adhesion. Flame treatment, corona discharge or plasma process for: Polypropylene (PP), polyethylene (PE). Surface tension should be at: pre-treated polypropylene (PP) at least = 42 mN/m, polyethylene (PE) = 42 mN/m. |
| Drying | a) All ink shades can be cured with UV lamps (medium pressure mercury vapor lamps) of min. 160 W/cm can be used for curing. b) A post-curing phase of approx. 12 hours should be observed. The ink film then has its final properties. |
| Curing | Please note: A too low radiator intensity, a too high machine speed and a too high ink film thickness have a negative influence on the curing and adhesion properties. |
| Ability to over-print | Possible within the curing time. Intermediate drying is recommended. |
| Please note | As materials can differ greatly in terms of their chemical structure and manufacturing method, a sample (test print) must always be made. |
| Certification & norms | ■ The safety data sheet in accordance with REACH Regulation (EC) 1907/2006 contains the labeling as well as information on protective measures during processing, storage and disposal. The raw materials used comply with the limit values of the European standard EN 71 (safety of toys) Part 3 (migration of certain elements). |
| Cleaning | Our RM cleaning agent is suitable for cleaning tools and pad printing clichés. Use our pad cleaner to clean the printing pads. |

This data is based on current technical knowledge and experience.
However, due to the wide range of possible influences during processing, they do not exempt the user from carrying out his own tests. No legally binding assurance of specific properties or suitability for a specific application can be derived from our information.

Application technology: If you have any further questions about printing and application technology, please contact our application technology department at any time.

E-Mail: application@tampoprint.de, **Tel.:** +49 7150 928-351

For your inquiry

UV-RDF

| Our product range | | | | | | Your needs | |
|------------------------------------|----|-------------|------------------------------|-----------|---------------|------------|-----------|
| Art.-No. | | | Standard ink shade | Container | Contents | Unit | Ink shade |
| 49 | 03 | 01** - 23** | Standard ink shades | 1 Liter | 1 kg | | |
| 49 | 03 | 50 | Bronze binder | 1 Liter | 1 kg | | |
| 49 | 03 | 51 | Silver | 1 Liter | 1 kg | | |
| 49 | 03 | 52 | Gold | 1 Liter | 1 kg | | |
| 49 | 03 | 53 | Clear coat | 1 Liter | 1 kg | | |
| 49 | 03 | 80 | Process yellow Europe shade | 1 Liter | 1 kg | | |
| 49 | 03 | 81 | Process magenta Europe shade | 1 Liter | 1 kg | | |
| 49 | 03 | 82 | Process cyan Europe shade | 1 Liter | 1 kg | | |
| Other ink shades on request | | | | | | | |
| Art.-No. | | | Additive | Container | kg | | |
| 49 | 03 | 54 | Print additive UV-RDF | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Cleaning agent | Container | kg | | |
| 12 | 04 | 01 | RM | 1 Liter | approx. 1 kg | | |
| 12 | 94 | 01 | RM | 30 Liter | approx. 30 kg | | |
| Art.-No. | | | Pad cleaner | Container | kg | | |
| 12 | 04 | 04 | Pad cleaner | 1 Liter | approx. 1 kg | | |
| 12 | 04 | 05 | Pad cleaner | 5 Liter | approx. 5 kg | | |



Contact

Sale of pad printing ink
 E-Mail: colour@tampoprint.de
 at: tampoprint.com/downloads (Service request forms)

Material safety data sheets:

Please address your inquiries to
colourmsds@tampoprint.de

** To determine the article number, please add the two-digit number of the respective standard ink shade (ink shade card page 10) to the article number and state the complete number in the order.

W 2-component ink, gloss ink

Field of application

Packaging industry, preferably used in "open" systems.

| | | | |
|----------------------------------|--|-------------------------------|----------------------------------|
| Properties | Air drying, oven drying, raster-capable, flow (good), mechanical resistance. | | |
| Print technical note | The best multicolor prints with superimposed ink surfaces are achieved with printing units connected in series with intermediate drying stations. | | |
| Pre-treatment | During processing and drying of the ink with hardener make sure that the processing and curing temperature does not fall below 15 °C, otherwise the chemical cross-linking will come to a standstill. Excessive humidity should also be avoided in the first few hours, as the hardener is moisture-sensitive. | | |
| Drying | After adding BH hardener, physical chemical drying. At room temperature (20-25 °C) approx. 2 min. (hand and dust dry), approx. 20-30 sec. when exposed to heat/air circulation, a few seconds with thermal diffusion. Oven drying: time and temperature depend on the materials to be printed (Reference value: 80 °C approx. 20 min. depending on ink layer thickness). | | |
| Curing | At room temperature (20–25 °C) approx. 5 days. | | |
| Pot life | Pot life of the mixed ink approx. 6 hours, after which reduced adhesion and resistance must be expected, even if the ink still appears liquid and workable. | | |
| Ability to over-print | Overprinting of ink type W is only possible within approx. 8 hours. | | |
| Please note | – | | |
| Certification & norms | ■ The safety data sheet in accordance with REACH Regulation (EC) 1907/2006 contains the labeling as well as information on protective measures during processing, storage and disposal. The raw materials used comply with the limit values of the European standard EN 71 (safety of toys) Part 3 (migration of certain elements). | | |
| Cleaning | Our RM cleaning agent is suitable for cleaning tools and pad printing clichés. Use our pad cleaner to clean the printing pads. | | |
| Auxiliaries | Thinner | Mixing ratio 15–30 % | Thinner VD slow drying |
| | Retarder | Mixing ratio 5-25 % | Thinner VD 3 quick drying |
| | Hardener | Mixing ratio 33,3–50 % | Retarder VZ |
| | Leveling agent | Mixing ratio 1–5 % | Hardener BH |
| | | | Leveling agent VL |

This data is based on current technical knowledge and experience. However, due to the wide range of possible influences during processing, they do not exempt the user from carrying out his own tests. No legally binding assurance of specific properties or suitability for a specific application can be derived from our information.

Application technology: If you have any further questions about printing and application technology, please contact our application technology department at any time.

E-Mail: application@tampoprint.de, Tel.: +49 7150 928-351

For your inquiry

W

| Our product range | | | | | | Your needs | |
|------------------------------------|----|-------------|------------------------------|------------------|----------------------------------|------------|-----------|
| Art.-No. | | | Standard ink shade | Container | Contents | Unit | Ink shade |
| 10 | 21 | 01** - 23** | Standard ink shades | 1 Liter | Specific weight 1.2 – 2.0 kg! | | |
| 10 | 21 | 50 | Bronze binder | 1 Liter | | | |
| 10 | 21 | 80 | Process yellow Europe shade | 1 Liter | | | |
| 10 | 21 | 81 | Process magenta Europe shade | 1 Liter | | | |
| 10 | 21 | 82 | Process cyan Europe shade | 1 Liter | | | |
| Other ink shades on request | | | | | | | |
| 10 | 21 | 83 | Transparent paste | 1 Liter | | | |
| Art.-No. | | | Thinner | Container | kg | | |
| 12 | 01 | 01 | VD | 1 Liter | approx. 1 kg | | |
| 12 | 91 | 01 | VD | 5 Liter | approx. 5 kg | | |
| 12 | 01 | 04 | VD 3 | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Retarder | Container | kg | | |
| 12 | 02 | 01 | VZ | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Hardener | Container | kg | | |
| 12 | 02 | 99 | BH | 0,2 Liter | approx. 0,2 kg | | |
| 12 | 53 | 01 | BH | 0,5 Liter | approx. 0,5 kg | | |
| 12 | 03 | 01 | BH | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Leveling agent | | | | |
| 12 | 05 | 01 | VL | 1 Liter | approx. 1 kg | | |
| Art.-No. | | | Cleaning agent | Container | kg | | |
| 12 | 04 | 01 | RM | 1 Liter | approx. 1 kg | | |
| 12 | 94 | 01 | RM | 30 Liter | approx. 30 kg | | |
| Art.-No. | | | Pad cleaner | Container | kg | | |
| 12 | 04 | 04 | Pad cleaner | 1 Liter | approx. 1 kg | | |
| 12 | 04 | 05 | Pad cleaner | 5 Liter | approx. 5 kg | | |



Contact

Sale of pad printing ink
 E-Mail: colour@tampoprint.de
 at: tampoprint.com/downloads (Service request forms)

Material safety data sheets:

Please address your inquiries to
colourmsds@tampoprint.de

** To determine the article number, please add the two-digit number of the respective standard ink shade (ink shade card page 10) to the article number and state the complete number in the order.

Overview page based on examples

Ink types



16

Ink type ACP
Highlighter



18

Ink type B
Objektive lens



20

Ink type B/GL
Glass tubes



22

Ink type CFU
Play bricks



24

Ink type F
Screwdriver bits



26

Ink type GU-N
Toy rays



28

Ink type L
Tank oil cap



30

Ink type LOGO
Golf balls



32

Ink type M
Socket wrench head



34

Ink type N
Spectacle frame



36

Ink type P
Mascara



38

Ink type P-AF
BFS container

Overview page based on examples

Ink types



40

Ink type RDF-HF
Closure caps



42

Ink type S
Engine cover



44

Ink type TH-G
LED lamp



46

Ink type TP-CD
Gas and water fittings



48

Ink type TP-PP
Steam iron faceplate



50

Ink type U-HF
Baby bottles



52

Ink type UV-RDF
Crown cork



54

Ink type W
Sealing cap AdBlue



Selection guide

Pad Printing Ink

Your pad printing ink selection

Which ink type is the right one is based on various influencing factors. The opacity of the ink types and ink shades depends on the surface to be printed as well as the engraving depth, cliché screening and the number of prints (single or double/multiple printing). The ink consistency must also be

adjusted to the correct viscosity with the appropriate thinner (solvent), depending on the print image. You will find the auxiliaries perfectly matched to our pad printing inks in our portfolio.

| Industry | Ink type |
|--------------------------------|-----------------|
| Medical technology | U-HF |
| Beverages | RDF-HF, P-AF |
| Automotive interior / exterior | N, B, S |
| Sports | LOGO, ACP, GU-N |
| Hygiene and cosmetics | U-HF, CFU |
| Sanitary | B/GL, S |
| Stationery | CFU, P-AF |
| Baby products | U-HF |

| Industry | Ink type |
|--------------------------------|---|
| Toys | P-AF, CFU, U-HF |
| Tools | B, B/GL, TP-CD, G-UN |
| Optics and measuring technique | S, B/GL |
| Electronics | CFU, P-AF, silicone-free version possible |
| White goods | CFU, U-HF |
| Exclusive products | N |
| Home Interior | CFU, P-AF |

Please note that the information given is a guideline. A concrete recommendation depends on the application and the material. An incoming inspection (test print) must always be carried out. We will be pleased to advise you.

Technical data under download on our homepage



OUR SERVICES
As a full-service supplier, we provide fast and reliable support for your requests.

Service

Application Technology

Application-related services

Our application engineering department performs a detailed analysis of the task at hand, determines all process requirements and develops the best possible approach for your marking process.

We support you in the launch phase of your series production, verify your process flow and integrate it into your existing production line.

We provide our customers with expert advice on choosing the right ink. But we also reliably solve any task in processes that are not linked to ink, such as the application of lubricants, adhesives, release agents or medical active ingredients.

Our service

- Determination of the optimum interaction of all components
- Support with machine setup
- Process optimization of existing production lines
- Support for pad printing and laser specialists
- Development of marking processes
- Determination of printing/laser machine parameters
- Verification of process sequences
- Integration into automations or production lines
- Support of sensitive industries such as pharma, medical technology and automotive
- Validation in accordance with the GMP guidelines
- Validation in accordance with the IATF 16949 guidelines

Feasibility analysis and sampling

Determination of the optimal interaction of all components



Small series production and start-up support

Production of the pre-series by our experienced application engineers



Contract manufacturing

Test prints, sampling and production outsourcing

Validation

Comprehensive support for the required validation processes

TAMPOPRINT®



HERMETIC 90

Consumables: Standard antistatic printing pad, Magnet-Aloxid cliché plate, ink/doctoring cup Ø 90 NE.

Pad printing



MACHINES

Thank you

For your Interest and your Trust

Your Partner for Laser Marking and Pad Printing

We offer you everything from a single source: from consulting, machines and consumables down to service.

New product designs, product markings and plagiarism protection are possible with pad printing and laser machines. Use our experience for optimized or new production processes. Our core competencies are industrial pad printing and laser marking. Of course, both processes can be combined and integrated into automations using software developed in-house.

Our reliable, uncomplicated and efficient standard pad printing machines for classic pad printing are suitable for numerous tasks in industry. The standardization of our machines has many advantages for our customers: The industrial marking systems deliver optimal printing results, high process stability and offer ease of operation, maintenance friendliness and cost savings.

We offer our customers complex, semi- and fully automated industrial marking systems for large quantities and high cycle rates. These include the modular system MAP (Modular Automation Platform) or the rotary automations ROTOPRINT as well as CLOSURE PRINT COMPACT. Rotary pad printing offers speed combined with frequent motif changes. For applications where production flexibility and user-friendliness are particularly important, our semi-automatic systems of the MODULE-ONE series score highly.

Our industrial marking systems, which combine pad printing and laser technology, enable special solutions in pad printing that are perfectly matched to the requirement. The combined systems offer versatile application possibilities when printing on the smallest areas, combined with individual laser engraving.

Similar decoration processes such as offset printing or screen printing, embossing or etching reach their physical and economic limits in comparison. It is possible for pad printing and also our laser systems to print or mark concave as well as convex and uneven surfaces. Take your time to get to know pad printing and develop your own ideas and concepts.

In recent decades, pad printing has undergone a transformation from the so-called "open" ink/doctoring system to the closed, i.e. "hermetic", ink/doctoring system (invented by TAMPOPRINT and first introduced to the global market in 1983 with the "ENCODER" pad printing machine).

For some years now, there has been another technical revolution, the integrated printing cliché production within the printing process, integrated into the standard pad printing machine.

Today, the "hermetic" system and its use dominate the market. Advantages for the user include:

- No health hazards such as solvent evaporation
- Constant ink consistency
- Cleanliness and time savings during ink changes
- Stable printing process
- No drying of the printing ink during downtimes
- Minimized waste during set-up
- Fast changeover of the pad printing machines

Send us your request!

Contact:

Phone: +49 71 50 928-0
info@tampoprint.de

Contact

Our Contact Persons

Product Manager Inks

Rafael Sliwa Tel. +49 7150 928-248
 e-mail r.sliwa@tampoprint.de

Sales Manager Pad Printing & LaserSystems

Dietmar Scholz Tel. +49 7150 928-368
 e-mail d.scholz@tampoprint.de

Sales Manager Pad Printing & Closure Systems

Thilo Reichelt Tel. +49 7150 928-129
 e-mail t.reichelt@tampoprint.de

Sales Manager Consumables and Spare parts

Thomas Mäule Tel. +49 7150 928-361
 e-mail t.maeule@tampoprint.de

Service Supervisor Pad Printing

Alexander Gottwald Tel. +49 7150 928-165
 e-mail a.gottwald@tampoprint.de

Application engineering

Tel. +49 7150 928-351
e-mail application@tampoprint.de

Media contact

Tel. +49 7150 928-221
e-mail pr@tampoprint.de



technologies for your future

TAMPOPRINT® GmbH
Lingwiesenstraße 1
70825 Korntal-Münchingen
GERMANY

Tel. +49 7150 928-0
Fax +49 7150 928-400

info@tampoprint.de
www.tampoprint.com

TAMPOPRINT® IBERIA S.A.U.
Polígono Industrial Martorelles
C/ Sant Martí, s/n (entre Gorgs y Mogent)
08107 Martorelles (Barcelona), SPAIN

Tel. +34 93 2327161
Fax +34 93 2471500

tampoprint@tampoprint.es
www.tampoprint.com

TAMPOPRINT® INTERNATIONAL CORP.
1400 26th Street, Vero Beach
FL 32960
USA

Tel.+1 772 778-8896, 800 810-8896
Fax +1 772 778-8289

info@tampoprint.com
www.tampoprint.com



The reproduction of trademarks and brands used in this brochure, even if not explicitly expressed, does not justify the assumption that such names or symbols may be considered as free as defined by the Trademark Act and may therefore freely be used. The rights are the property of the respective owner. TAMPOPRINT products are permanently updated to keep pace with the latest technological developments. For this reason, figures and descriptions are non-binding. Our machines are manufactured based on the currently valid European Machinery Directives as well as the European product standards EN 1010-1 and EN 1010-2.

Copyright © TAMPOPRINT GmbH. Subject to technical changes and other modifications.

All locations are certified ISO 9001:2015

03/2024