

Series 750

2C Pad Printing Ink for Glass, Metals and Duroplasts

Silky glossy and highly resistant pad printing ink, Series 750 for printing on glass, various metals and

duroplasts. Typical applications are promotional items and automotive interiors.

Application

- › Glass decoration
- › Promotional items
- › Industrial applications

Substrates

| Substrate | Rating | Hints |
|-----------------------------------|--------|----------------------|
| Duroplasts | ★★★★★ | |
| Glass / Ceramics | ★★★★★ | |
| Rigid PVC | ★★★★★ | |
| Metals | ★★★★★ | |
| Polyamide (PA) | ★★★★★ | |
| Polyethylene (PE), pre-treated | ★★★★★ | |
| Polyoxymethylene (POM) | ★★★★★ | Post flame treatment |
| Polypropylene (PP), pre-treated | ★★★★★ | |
| ABS, SAN, copolymers | ★★★★ | |
| Coated surfaces / powder coatings | ★★★★ | |
| Polycarbonate (PC) | ★★★★ | |
| Polyester, non pre-treated | ★★★★ | |
| Acrylic glass (casted PMMA) | ★★★ | |

Legend ★★★★★ Very well suited ★ Detailed pre-tests necessary

Characteristics

| Feature | Rating | Hints |
|----------------------------------|--------|--|
| Alcohol- and gasoline resistance | ★★★★★ | |
| Flexibility | ★★★ | |
| Gloss | ★★★ | Silky glossy |
| Resistance to hand sweat | ★★★★★ | |
| Light fastness | ★★★★★ | |
| Abrasion resistance | ★★★★★ | |
| Pigmentation | ★★★★★ | |
| Temperature resistance | ★★★★★ | |
| Drying | ★★★ | |
| Water resistance | ★★★ | Improvement by forced drying: 140°C / 20 minutes |
| Weather resistance | ★ | |

Legend ★★★★★ Very good product properties n/a No information available
 ★ Product properties not available

Product Range

MS Basic Colors

| Article | Color | HP | | | Article | Color | HP | | |
|----------|------------------|----|--|--|----------|------------|----|--|--|
| 750-1005 | MS light yellow | • | | | 750-3305 | MS magenta | • | | |
| 750-1105 | MS medium yellow | • | | | 750-4005 | MS violet | • | | |
| 750-1205 | MS dark yellow | • | | | 750-5005 | MS blue | • | | |
| 750-2005 | MS orange | • | | | 750-6005 | MS green | • | | |
| 750-3005 | MS red | • | | | 750-8005 | MS black | • | | |
| 750-3105 | MS magenta red | • | | | 750-9005 | MS white | • | | |

HP High pigmented

Note I: All abbreviations used in this chart are explained in detail on the last page of this data sheet.

Other Colors

| | | |
|-----------------|---|-------------------------|
| ST Colors | ST Color Chart / www.printcolor.ch/stcolorguide | |
| ST Metallics | ST Color Chart / www.printcolor.ch/stcolorguide | |
| ST Neon Colors | ST Color Chart / www.printcolor.ch/stcolorguide | |
| Special Colors | Pantone [®] , HKS, RAL and after customers sample | |
| Others | Series 750-00 | ST white |
| | 750-00/HD | ST white, highly opaque |
| | Series 750-04 | ST transparent paste |
| | Series 750-05 | ST varnish |
| | Series 750-05/MT | ST varnish, mat |
| | Series 750-33 | ST black |
| Series 750-33/B | ST black, intensive | |

Auxiliaries

| | | | |
|--------------------|----------------|-----------------------|------------------|
| Thinner | Series 700-017 | Addition ratio | 15-30% by weight |
| Retarder* | Series 700-018 | Addition ratio | 5-20% by weight |
| Accelerator | Series 700-019 | Addition ratio | 15-30% by weight |
| Accelerator (fast) | Series 700-041 | Addition ratio | 15-30% by weight |

* Blended with Series 700-017.

| Hardener | Series 700-GL | Series 700-HDI | |
|------------------------------|---------------------------------------|--------------------------------------|--|
| Application | Glass / ceramics / non-ferrous metals | Duroplasts / aluminum / sheet metals | |
| Addition ratio | 20:1 | 4:1 | |
| Reactivity | Medium reactivity from 20°C | Higher reactivity from 15°C | |
| Resistance against chemicals | Excellent | Very good | |
| Outdoor resistance | Not recommended | Not recommended | |

Note: a detailed overview of all available auxiliaries can be found in a separate data sheet.

Processing

Cliché

All commercially available clichés can be used.

Drying

Drying of Series 750 depends on the layer thickness as well as on the substrate.

Usual parameters (no addition of retarder):

| | |
|--------------|--|
| Air | Physically drying |
| Dryer | Oven (recommended), IR-dryer, continuous dryer |

Curing

Curing of the ink systems is depending on the temperature, the used hardeners and the layer thickness. A minimum temperature (see point “hardener”) over a period of 5 to 10 days must be guaranteed to reach maximum resistance. By increasing temperature, the ink film cures more quickly and chemical resistance is reached sooner and higher.

Curing times

| | |
|-----------------------|---|
| Series 700-GL | 5-7 days (at minimum temperature) |
| Series 700-HDI | 5-6 days (at minimum temperature) |
| Forced Drying | From 20 minutes at 140°C up to 60 minutes at 80°C |

It is important to ensure, that temperatures do not fall below within the first 48 hours. An increased moisture supply during drying time can permanently damage the ink film.

Pot life

MS colors and its blends have a pot life of 4-8 hours, depending from the hardeners used and depending on environmental conditions. Significantly shortened pot life has to be encountered with metallic colors.

Cleaning

Series 700-BRT, Series 700-URT

Special Features & Tips

| | |
|------------------------------|---|
| Dishwasher resistance | To improve dishwasher resistance we would recommend forced drying at 140°C during 20 minutes. |
| Outdoor resistance | The binder system used only allows a limited outdoor resistance. |

Others

| | |
|---------------------------------|--|
| Delivery | 1 kg / 5 kg / 25 kg |
| Certificates / Standards | www.printcolor.ch/certificates |
| Other | Stir well before use Information on shelf life can be found on the cover label. |

TECHNICAL DATA SHEET

Basic Color Systems

HP Basic mixing system with highly pigmented primary colors

Safety Information

Actual Material Safety Data Sheets according to EC-Regulation 1907/2006 are available for all products mentioned in this data sheet.

| Issued on | Revised on | Edited by | Version |
|------------|------------|-----------|---------|
| 11.02.2015 | - | T21 / T06 | 1 |

Important Information

Our technical advice whether spoken, written, or through test trials corresponds to our current knowledge to inform about our products and their use. This is not meant as an assurance for certain properties of the products nor their suitability for each application. You are, therefore, obliged to conduct your own tests with our supplied products to confirm their suitability for the desired process or purpose. The selection and testing of the ink for specific applications is exclusively your responsibility. Should, however, any liability claims arise, such claims shall be limited to the value of the goods delivered by us and utilized by you with respect to any and all damages not caused intentionally or by gross negligence.