

Series 752

Universal 1C and 2C Pad Printing Ink

Extremely user-friendly, silky-glossy and highly opaque pad printing ink, Series 752 for printing on plastics, coatings and metals.

Typical applications are promotional items, technical components, toys and packagings.

Application

- › Promotional items
- › Technical components
- › Toys
- › Packaging
Medical supplies (partially USP Class VI Medical listings)

Substrates

Substrate	Rating	Hints
ABS, SAN, copolymers	★★★★★	
Rigid PVC	★★★★★	
Polycarbonate (PC)	★★★★★	
Acrylic glass (casted PMMA)	★★★★	
Coated surfaces / powder coatings	★★★★	
PET-A	★★★★	
PET-G / PET-GAG	★★★★	
Polyamide (PA)	★★★★	
Polyethylene (PE), pre-treated	★★★★	
Polypropylene (PP), pre-treated	★★★★	
Polystyrene (PS), injection-molded parts of acryl glass	★★★★	
Polystyrene (PS), glossy	★★★★	
Polystyrene (PS), mat	★★★★	
Duroplasts	★★★	
Polyester, non pre-treated	★★★	
Polypropylene (PP), non pre-treated	★★★	Addition Series 700-PP (20% by weight)
Soft PVC	★★★	
Metal	★	

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

Characteristics

Feature	Rating	Hints
Alcohol- and gasoline resistance	★★★	Improvement by use of Series 700-HDI (20% by weight).
Flexibility	★★★★	
Gloss	★★★	Silky glossy
Resistance to hand sweat	★★★★	Improvement by use of Series 700-HDI (20% by weight).
Light fastness	★★★★	
Abrasion resistance	★★★★	
Pigmentation	★★★★★	
Temperature resistance	★★★	
Drying	★★★★	
Water resistance	★★★★	Improvement by use of Series 700-HDI (20% by weight).
Weather resistance	★★★★	Improvement by use of Series 700-HDA (20% by weight).

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

Product Range

MS Basic Colors

Article	Color	HP	HD	Article	Color	HP	HD
752-1005	MS light yellow	•		752-3305	MS magenta	•	
752-1005/HD	MS light yellow	•	•	752-4005	MS violet	•	
752-1105	MS medium yellow	•		752-5005	MS blue	•	
752-1205	MS dark yellow	•		752-5005/HD	MS blue	•	•
752-2005	MS orange	•		752-6005	MS green	•	
752-3005	MS red	•		752-6005/HD	MS green	•	•
752-3005/HD	MS red	•	•	752-8005	MS black	•	
752-3105	MS magenta red	•		752-9005	MS white	•	

HP High pigmented **HD** High opaque

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 752-00 ST white
	Series 752-00/HD ST white, highly opaque
	Series 752-04 ST transparent paste
	Series 752-05 ST varnish
	Series 752-05/MT ST varnish, mat
	Series 752-06 Retarder paste
	Series 752-33 ST black
	Series 752-33/B ST black, intensive
	Series 752-8005/USP Black, Medical Class VI
	Series 752-9005/USP White, Medical Class VI

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-HDI	Series 700-HDA
Application	Duroplasts / aluminum / sheet metals	Duroplasts / aluminum / sheet metals
Addition ratio	5:1	5:1
Reactivity	Medium reactivity from 15°C	Higher reactivity from 20°C
Resistance against chemicals	Good	good
Outdoor resistance	Not recommended	good

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 752 depends on the layer thickness as well as on the substrate.

Usual parameters (no addition of retarder):

Air	Physically drying
Dryer	Oven, 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-HDI	5-7 days (at minimum temperature)
Series 700-HDA	7 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

Adhesion on non-pretreated PP	Adhesion can be improved by addition of Series 700-PP (20% by weight). In this case the ink has to be used as a 2C ink.
Detail reproduction and printability	Series 752 convinces by excellent detail reproduction and printability.

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.

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.

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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.