

Series 784

Silicone-free 2C Pad Printing Ink for Automotive Rims

Series 784 is a silicone-free, highly resistant two-component solvent-based pad printing ink. It is exceptionally lightfast, extremely resistant to chemical and mechanical influences, temperature-stable for 30 minutes at 200 °C and optimally wets both wet and powder coatings. This allows perfect permanent adhesion. Series 784 is the optimal ink for printing on coatings in combination with subsequent wet painting and is therefore extremely successful when used for printing on alloy rims. Series 784 meets the demanding quality and safety standards of the automotive industry and is therefore extremely successful when used for printing on alloy rims.

Key Characteristics

- › Highly lightfast colors
- › Silicone-free binder
- › Optimal outdoor resistance
- › Rapid surface drying
- › Comprehensive color system
- › 100% traceable production

Application

- › Automotive alloy rims
- › Technical components in the automotive sector
- › Pad printing on coatings with subsequent wet painting or powder coating

Substrates

Substrate	Rating	Hints
Rigid PVC	★★★★★	
Coated surfaces / powder coatings	★★★★★	
Polyamide (PA)	★★★★★	
Polyethylene (PE), pre-treated	★★★★★	
Polypropylene (PP), pre-treated	★★★★★	
ABS, SAN, copolymers	★★★★	
Duroplasts	★★★★	
Metal	★★★★	
PET-A	★★★★	
Polycarbonat (PC)	★★★★	
Polystyrene (PS), injection-molded parts of acryl glass	★★★★	
Polystyrene (PS), glossy	★★★★	
Polystyrene (PS), mat	★★★★	

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

Characteristics

Feature	Rating	Hints
Alcohol- and gasoline resistance	★★★★★	
Flexibility	★★★	
Gloss	★★★★★	Highly glossy
Resistance to hand sweat	★★★★★	
Light fastness	★★★★	
Abrasion resistance	★★★★★	
Pigmentation	★★★★★	
Temperature resistance	★★★★	
Drying	★★★	Ink film is quickly surface dry
Water resistance	★★★★	
Weather resistance	★★★★★	

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

Product Range

MS Basic Colors

Article	Color	HP	HD	HL	HR	SF	Article	Color	HP	HD	HL	HR	SF
784-1006	MS light yellow	•		•	•	•	784-4006	MS violet	•		•	•	•
784-1106	MS medium yellow	•		•	•	•	784-5006	MS blue	•		•	•	•
784-1156	MS dark yellow			•	•	•	784-6006	MS green	•		•	•	•
784-1856	MS pure orange			•	•	•	784-8006	MS black	•		•	•	•
784-2956	MS red			•	•	•	784-9006	MS white	•		•	•	•
784-3306	MS magenta	•		•	•	•							

HP Highly pigmented **HD** Highly opaque **HR** Highly thermo-resistant **HL** Highly lightfast
SF Silicone-free

Other Colors

Other Colors	SF
ST Colors Series 784-33/06 ST black	•
Series 784-00/745 ST white, extra heat resistant	•
Special Colors Pantone®, HKS, RAL and after customers sample	

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

Auxiliaries

Thinner	Series 700-017	Addition ratio	15–30 % by weight
Thinner (free of PAH)	Series 700-037	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, free of PAH)	Series 700-041	Addition ratio	15–30 % by weight

* Blended with Series 700-017.

Hardener	Series 700-HDA	Series 700-HDS
Application	Universal	Extra-resistant
Addition ratio	4:1	4:1
Reactivity	Medium reactivity from 20°C	medium reactivity from 23°C
Resistance against chemicals	Very good	Excellent
Outdoor resistance	Very good	Excellent

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 784 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-HDA	7 days (at minimum temperature)
Series 700-HDS	10 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

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.
- HR** Thermo-stable combination colors with a heat resistance of 200 °C/>30 min.
- HL** Highly lightfast color for long-term outdoor use.
- HD** Highly opaque version.
- SF** Silicone-free version.

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.