

Series 388

Universal Solvent based Screen Printing Ink for Plastics

Glossy and high pigmented screen printing ink, Series 388, based on highly resistant raw materials for printing on various plastic materials. Typical

applications are high quality stickers, signs for outdoor use and other technical application.

Application

- › Car lettering
- › Signs
- › Technical components
- › Automotive applications
- › Labels and stickers (incl. readability on both sides)
- › Promotional items
- › Displays

Substrates

Substrate	Rating	Hints
Coated surfaces / powder coatings	★★★★★	
Composite materials	★★★★★	
Plasticized PVC self-adhesive foils	★★★★★	
ABS, SAN, copolymers	★★★★	
Acrylic glass (casted PMMA)	★★★★	
Primered / coated foils	★★★★	
Rigid PVC	★★★★	
Polycarbonate (PC)	★★★★	
Polyester, primered	★★★★	
Rigid PVC, foamed	★★★	
Paper, cardboard	★★★	
Plasticized PVC tarpaulins	★★★	
Polystyrene (PS), mat	★★	

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

Characteristics

Feature	Rating	Hints
Alcohol- and gasoline resistance	★★★★	Use of Series 600-HDA (5-10 %) to further improve resistance.
Resistance to adhesives	★★★★	
Block resistance	★★★	
Flexibility	★★★★	
Gloss	★★★★	Glossy
Resistance to hand sweat	★★★★	
Light fastness	★★★★	See technical information: light fastness
Abrasion resistance	★★★★	
Pigmentation	★★★★★	
Screen openness	★★★★	
Temperature resistance	★★★	See color chart HR and thermoresistant products
Drying	★★★	
Moldability	★★★★	
Weather resistance	★★★★	

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

Product Range

MS Basic Colors

Article	Color	HP	HR	HT	HL	Article	Color	HP	HR	HT	HL
388-1000	MS light yellow	•				388-3050	MS light red			•	
388-1010	MS yellow			•		388-3100	MS magenta red	•		•	•
388-1020	MS real yellow			•		388-3150	MS medium red			•	•
388-1050	MS pure yellow		•		•	388-3200	MS dark red	•	•	•	•
388-1100	MS medium yellow	•			•	388-3300	MS magenta	•	•	•	•
388-1200	MS dark yellow	•				388-4000	MS violet	•	•	•	•
388-1300	MS yellow orange			•	•	388-4500	MS dark blue		•	•	•
388-2000	MS orange	•				388-5000	MS blue	•	•	•	•
388-2100	MS pure orange			•	•	388-6000	MS green	•	•	•	•
388-2500	MS orange red				•	388-7000	MS brown	•	•		•
388-2950	MS pure red		•			388-8000	MS black	•	•	•	•
388-3000	MS red	•				388-9000	MS white	•	•	•	•

HP High pigmented **HR** High thermoresistant **HT** High transparent **HL** High light fast

Note I: The MS-basic inks must be processed in combination with the corresponding binder Series 388-07 (min. 20 % by weight).
 Note II: All acronyms 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 Neon Colors	ST Color Chart / www.printcolor.ch/stcolorguide	
ST Process Inks	See technical information: Process Inks	
UV Luminescent Colors	Series 388-UL09/05	UV luminescent ink, yellow
	Series 388-UL16/05	UV luminescent ink, red
	Series 388-UL26/05	UV luminescent ink, blue
	Series 388-UL30/05	UV luminescent ink, green
Special Colors	Pantone®, HKS, RAL and after customers sample	
ST Metallics	ST Color Chart / www.printcolor.ch/stcolorguide	
	Series 388-100/HL	ST silver, high light-fast
Products for thermoresistant applications	Series 388-00/473	White, thermoresistant
	Series 388-05/497	ST varnish, thermoresistant
Others	Series 388-00	ST white
	Series 388-00/M	Mat paste
	Series 388-04	ST transparent paste
	Series 388-05/835	ST varnish
	Series 388-05/MT	ST varnish, mat
	Series 388-06	Retarder paste
	Series 388-07	Binder, glossy
	Series 388-33	ST black
	Series 388-5700	Varnish for light protection
Series 388-07/20	Bronze binder for Series 388	

Auxiliaries

Thinner	Series 300-017	Addition ratio	15 – 30 % by weight
Thinner for process colors	Series 300-017/ISO	Addition ratio	15 – 30 % by weight
Retarder	Series 300-018	Addition ratio	max. 20 % by weight
Retarder for process colors	Series 300-018/ISO	Addition ratio	max. 15 % by weight
Accelerator	Series 300-019	Addition ratio	15 – 30 % by weight

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

Processing

Mesh

All commercially available polyester can be used.

Stencils

All commercially available and solvent resistant stencils can be used.

Drying

Drying of Series 388 depends on the layer thickness as well as on the substrate and the auxiliaries used.

Usual parameters are (without addition of retarder):

Air	Physically fast drying at 20°C ambient temperature / 50% relative humidity. Overprintable after 10 minutes.
Continuous dryer	Depending on dryer capacity, the print is stackable after 30-60 seconds. The recommended drying temperature lies between 40-60°C.

Further Processing

- › Punching
- › Cutting
- › Lining
- › Grooving
- › Molding / coining
- › Folding

Cleaning

Series 300-URS, Series 300-BRS

Special Features & Tips

MS mixing system	MS ink Series 388 + Binder Series 388-07 (min. 20 % by weight)
Double-sided stickers	Series 388 in combination with: Series 655-00/16, Opaque White and Series 655-33/399, Barrier Layer Gray Series 140-3113-00/07, High Opaque White and Series 140-3113-9100/07, High Opaque Barrier Layer Gray

Productivity

Depending on the color shade, a productivity of 50-70 m²/kg is to be expected with press-ready ink and use of a mesh 120.34.

Others

Delivery	1 kg / 5 kg / 25 kg
Certificates / Standards	www.printcolor.ch/certificates
Third party applications (after pre-tests)	Addition: always with 30 % binder Roll and spray applications: thinner Series 300-743 Spray applications: thinner Series 300-377 (regulated addition)
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/>30min.
- HT** Highly transparent combination colors for high glaze coloring.
- HL** High light fast color for long-term outdoor use.

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
04.05.2015	12.10.2018	T21 / T12 / T06 / T31	7

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.