

Series 278

Solvent-based Screen Printing Ink for Paper and Plastics

Semi glossy, high pigmented screen printing ink, Series 278, for printing on paper and cardboard materials as well as on various plastics. Typical ap-

plications are posters, displays and promotional items.

Application

- › Posters
- › Packagings made of cardboard
- › Displays
- › Promotional items

Substrates

Substrate	Rating	Hints
Coated paper	★★★★★	
Cardboards	★★★★★	
Uncoated paper	★★★★★	
Galvanized plastic surfaces	★★★★	
Polyester, not pre-treated	★★★	
Polyolefin, pre-treated / not pre-treated	★★★	
Polystyrene (PS) with modification	★★★	

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

Note: A full overview of substrates of series 200 can be found here: www.printcolor.ch/substrates

Characteristics

Feature	Rating	Hints
Alcohol- and gasoline resistance	★★	
Resistance to adhesives	★	
Block resistance	★★★★★	
Flexibility	★★★★	
Gloss	★★★	Silk gloss
Resistance to hand sweat	★★★	
Light fastness	★★★	See technical information: light fastness
Abrasion resistance	★★★	
Pigmentation	★★★★★	
Screen openness	★★★★★	
Temperature resistance	★★★	
Drying	★★★★	
Moldability	n / a	
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		
278-1000	MS light yellow	•			278-3300	MS magenta	•		
278-1100	MS medium yellow	•			278-4000	MS violet	•		
278-1200	MS dark yellow	•			278-5000	MS blue	•		
278-2000	MS orange	•			278-6000	MS green	•		
278-3000	MS red	•			278-7000	MS brown	•		
278-3100	MS magenta red	•			278-8000	MS black	•		
278-3200	MS dark red	•			278-9000	MS white	•		

HP High pigmented

Note I: The MS-basic inks must be processed in combination with the corresponding binder Series 278-07 (min. 20% by weight).

Note II: 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 Color	ST Color Chart / www.printcolor.ch/stcolorguide		
Special colors	Pantone [®] , HKS, RAL and after customers sample		
Others	Series 278-00	ST white	
	Series 278-04	ST transparent paste	
	Series 278-05	ST varnish	
	Series 278-06	Retarder paste	
	Series 278-07	Binder	
	Series 278-07/MT	Binder, mat	
	Series 278-33	ST black	

Auxiliaries

Thinner	Series 200-017	Addition ratio	10 – 20 % by weight
Retarder	Series 200-018	Addition ratio	10 – 20 % by weight
Accelerator	Series 200-019	Addition ratio	10 – 20 % by weight

Note: a detailed overview of all available auxiliaries can be found in the separate data sheet for product groups 10 and product groups 200.

Processing

Mesh

All commercially available polyester can be used.

Stencils

All commercially available and solvent resistant stencils can be used.

Drying

Drying of Series 278 depends on the layer thickness as well as on the substrate and the auxiliaries used.

Usual parameters (without addition of retarder)::

Air	Physically fast drying at 20°C ambient temperature / 50% relative humidity. Overprintable after 5-10 minutes.
Continuous dryer	Depending on dryer capacity, the print is stackable after 20-40 seconds. The recommended drying temperature lies between 40-60°C.

Further Processing

- › Punching
- › Cutting
- › Laminating
- › Grooving

Cleaning

Stencils and squeegees should promptly be cleaned with Series 200-URS or Series 200-BRS.

Special Features & Tips

MS mixing system	MS ink Series 278 (80% by weight) + binder Series 278-07 (20% by weight)
MS mixing system	www.printcolor.ch/mixingsystem
Mat setting	By use of binder, Series 278-07/MT instead of binder Series 278-07, the level of gloss can be reduced.

Productivity

Depending on the color shade as well on the substrate, a productivity of 50-70 m²/kg is to be expected with press-ready ink (20% thinning) and use of a mesh 120.34.

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 for 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.