

Series 420

Waterbased Screen Printing Ink for Plastics

Silky glossy and high pigmented screen printing ink, Series 420. Based on high quality, water dilutable raw materials for use on plastics. Typical applications are displays and stickers.

Application

- Displays
- Stickers

Substrates

Substrate	Rating	Hints
Rigid PVC, mat	***	
Wood, uncoated	***	
Paper, Cardboard	***	
PVC self adhesive foils	***	
Tyvek	***	
Polystyrene, mat	***	
Styrofoam	***	

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

Properties / Characteristics

Feature	Rating	Hints
Alcohol- and gasoline resistance	***	
Resistance to adhesives	n/a	
Block resistance	****	
Flexibility	***	
Gloss	***	Silky glossy
Resistance to hand sweat	***	
Light fastness	***	See technical information: light fastness
Resistance against marking	****	
Pigmentation	****	
Sieve openness	***	Relative humidity min. 50 %
Temperature resistance	n/a	
Drying	***	
Moldability	n/a	
Weather resistance	***	

Legend★★★★

Very good product properties

n/a

No information available

Product properties not available



TECHNICAL DATA SHEET



Product Range

MS Basic Colors

Article	Color	HP	Article	Color	HP	
420-1000	MS light yellow	•	420-3300	MS magenta	•	
420-1100	MS medium yellow	•	420-4000	MS violet	•	
420-1200	MS dark yellow	•	420-5000	MS blue	•	
420-2000	MS orange	•	420-6000	MS green	•	
420-3000	MS red	•	420-7000	MS brown	•	
420-3100	MS magenta red	•	420-8000	MS black	•	
420-3200	MS dark red	•	420-9000	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 Basic 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		
ST Process Colors	See technical information: process inks		
Special Colors	Pantone®, HKS, RAL and upon presentation		
Others	Series 420-00	ST white	
	Series 420-04	ST transparent paste	
	Series 420-05	ST varnish	
	Series 420-33	ST black	

Auxiliaries

Thinner	Tap water	Addition ratio	10% by weight	
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Note: A detailed overview of all available auxiliaries can be found in a separate data sheet.

Processing

All commercially available mesh can be used.

All commercially available and water resistant stencils can be used.

TECHNICAL DATA SHEET



Drying

Drying of series 420 depends on the layer thickness as well as on the substrate and the auxiliaries used.

Usual parameters (without addition of retarder):

Air	Physically drying at 20°C room temperature / 50% relative humidity. Overprintable after 10-15 minutes.
Dryer	Depending in the dryer performance the prints are stackable after 30-60 seconds. The recommended drying temperature is 40-60°C.

Further Processing

Grooving Punching Cutting **Folding**

Laminating

Cleaning

Intermediate cleaning: Series 400-URS Final cleaning: Series 400-URS/ISO

Printability

Keep the sieve always flooded during down times. The relative humidity must be at least 50%.

Special Features & Tips

MS ink Series 420 Color Mixing System (MS)

Productivity

Depending on the color shade and the substrate used, a productivity of 45-65 m²/kg is to be expected with press-ready ink (10 % thinner) 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.

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	Revision on	Edited by	Version
18.12.2014	-	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 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.

