

# Series 382

## easyCARD – Solvent Based Screen Printing Ink for PVC Cards

Silk gloss and high pigmented screen printing ink Series 382, based on hot laminating binders for printing of PVC card systems. Series 382 is typically

suitable for printing of smart cards, loyalty cards as well as debit and credit cards.

### Application

- › Smartcards
- › Loyalty Cards
- › Debit- and Credit cards

### Substrates

Substrate	Rating	Hints
Rigid PVC	★★★★★	
Soft PVC	★★★★★	

**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	★★★	Silk gloss
Resistance to hand sweat	★★★	
Light fastness	★★★	
Resistance against marking	★★★	
Pigmentation	★★★★★	Exception: easyMIX system
Sieve openness	★★★★★	
Temperature resistance	★★★★	Suitable for PVC-hot laminating processes.
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			Article	Color	HP		
382-1000	MS light yellow	•			382-3300	MS magenta	•		
382-1100	MS medium yellow	•			382-4000	MS violet	•		
382-1200	MS dark yellow	•			382-5000	MS blue	•		
382-2000	MS orange	•			382-6000	MS green	•		
382-3000	MS red	•			382-7000	MS brown	•		
382-3100	MS magenta red	•			382-8000	MS black	•		
382-3200	MS dark red	•			382-9000	MS white	•		

**HP** High pigmented

Note I: The MS-basic colors must be processed in combination with the corresponding binder Series 382-07 (min. 20 % up to 50% by weight).

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

### Other Colors

<b>ST Metallics</b>	ST Color Chart / <a href="http://www.printcolor.ch/stcolorguide">www.printcolor.ch/stcolorguide</a>		
<b>ST Neon Colors</b>	ST Color Chart / <a href="http://www.printcolor.ch/stcolorguide">www.printcolor.ch/stcolorguide</a>		
<b>Special Colors</b>	Pantone <sup>®</sup> , HKS, RAL and upon presentation		
<b>Special products for cards</b>	Series 382-02299/23	Visa-Silver	
	Series 382-103/42	Visa-Gold	
	Series 382-100/98	MasterCard-Silver	
	Series 382-100/48	MasterCard-Gold	
	Series 373-004	Stampable Varnish	
	Series 140-3113-00/05	Signature field ink, polishable, white	
	Series 140-3113/05	Signature field ink, polishable, transparent	
	Series 140-3113-00/06	Signature field ink, white	
	Series 140-3113-05/01	Signature field ink, transparent	
	Series 373-002	Polish-Varnish, PVC-Cards	
<b>Others</b>	Series 140-3105-05/06	Thermo-Varnish	
	Series 382-00	White, offset printable, laminable (formerly Series 382-00/668)	
	Series 382-04	Transparent Paste	
	Series 382-05	Print- and mixing varnish	
	Series 382-06	Retarder paste	
	Series 382-07	Binder, glossy	
	Series 382-33	ST black	

## Auxiliaries

<b>Thinner</b>	Series 300-017	<b>Addition ratio</b>	15 – 30% by weight
<b>Retarder</b>	Series 300-018	<b>Addition ratio</b>	Max. 20% by weight
<b>Accelerator</b>	Series 300-019	<b>Addition ratio</b>	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 mesh can be used.

### Stencils

All commercially available and solvent resistant stencils can be used.

### Drying

Drying of series 320 depends on the layer thickness as well as on the substrate and the auxiliaries used.

Usual parameters (without addition of retarder):

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

### Further Processing

- › Laminating
- › Grooving
- › Punching
- › Deforming / Embossing
- › Cutting
- › Folding

### Cleaning

Stencils and squeegees should promptly be cleaned with Series 300-URS or Series 300-BRS.

## Special Features & Tips

<b>Color Mixing System (MS)</b>	MS ink Series 382 + Binder Series 382-07 (min. 20 up to max. 50% by weight)
<b>Lamination strength</b>	Improvement by adding mixing varnish series 382-05.
<b>IR-absorbing colors</b>	On demand

## Productivity

Depending on the color shade and the substrate used, a productivity of 30-45 m<sup>2</sup>/kg is to be expected with press-ready ink (20 % thinner) and use of a mesh 77.55.

## Others

<b>Delivery</b>	1 kg / 5 kg / 25 kg
<b>Certificates / standards</b>	<a href="http://www.printcolor.ch/certificates">www.printcolor.ch/certificates</a>
<b>Other</b>	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.

Issued on	Revision on	Edited by	Version
05.07.2015	-	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.