

TECHNICAL DATA SHEET

Siemac T51

2C Pad Printing Ink for Glass, Metals and Duroplasts

Silky glossy and highly resistant pad printing ink, Series 750 for printing on glass, various metals and

duroplasts. Typical applications are promotional items and automotive interiors.

Application

- › Glass decoration
- › Promotional items
- › Industrial applications

Substrates

Substrate	Rating	Hints
Duroplasts	★★★★★	
Glass / Ceramics	★★★★★	
Rigid PVC	★★★★★	
Metals	★★★★★	
Polyamide (PA)	★★★★★	
Polyethylene (PE), pre-treated	★★★★★	
Polyoxymethylene (POM)	★★★★★	Post flame treatment
Polypropylene (PP), pre-treated	★★★★★	
ABS, SAN, copolymers	★★★★	
Coated surfaces / powder coatings	★★★★	
Polycarbonate (PC)	★★★★	
Polyester, non pre-treated	★★★★	
Acrylic glass (casted PMMA)	★★★	

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

Characteristics

Feature	Rating	Hints
Alcohol- and gasoline resistance	★★★★★	
Flexibility	★★★	
Gloss	★★★	Silky glossy
Resistance to hand sweat	★★★★★	
Light fastness	★★★★	
Abrasion resistance	★★★★★	
Pigmentation	★★★★★	
Temperature resistance	★★★★	
Drying	★★★	
Water resistance	★★★	Improvement by forced drying: 140°C / 20 minutes
Weather resistance	★	

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

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Product Range

MS-Basisfarben

Artikel	Farbton	HP	HF	PF	Artikel	Farbton	HP	HF	PF
Siemac T511005	MS-Hellgelb	•	•	•	Siemac T54005	MS-Violett	•		•
Siemac T511105	MS-Mittelgelb	•	•	•	Siemac T515005	MS-Blau	•	•	•
Siemac T511205	MS-Dunkelgelb	•		•	Siemac T516005	MS-Grün	•		•
Siemac T512005	MS-Orange	•		•	Siemac T516015	MS-Grün	•	•	•
Siemac T513005	MS-Rot	•	•	•	Siemac T518005	MS-Schwarz	•	•	•
Siemac T513105	MS-Magentarot	•	•	•	Siemac T519005	MS-Weiss	•	•	•
Siemac T513305	MS-Magenta	•	•	•					

HP Hoch pigmentiert HF Halogenfrei PF PAK-frei

Hinweis I: Die in der Tabelle verwendeten Abkürzungen sind auf der letzten Seite dieses Datenblatts näher erklärt.

Weitere Farbtöne

			HF	PF
ST-Metallicfarben	Siemac T51100	ST-Silber	•	
	Siemac T51100/HG	ST-Hochglanzsilber	•	•
	Siemac T51103/HG	ST-Hochglanz-Reichbleichgold		•
	Siemac T51200	ST-Perlmutter	•	•
	Siemac T5102299	ST-Grobsilber	•	
UV-Lumineszenzfarben	Siemac T51UL09/05	UV-Lumineszenzfarbe, Gelb		•
	Siemac T51UL16/05	UV-Lumineszenzfarbe, Rot		•
	Siemac T51UL26/05	UV-Lumineszenzfarbe, Blau		•
	Siemac T51UL30/05	UV-Lumineszenzfarbe, Grün		•
Sonstiges	Siemac T5100	ST-Weiss	•	•
	Siemac T5100 SO	ST-Weiss, hochdeckend	•	•
	Siemac T5104	Transparentpaste	•	•
	Siemac T5105	ST-Lack	•	•
	Siemac T5105/MT	ST-Lack, matt	•	•
	Siemac T5133	ST-Schwarz	•	•
	Siemac T5133/B	ST-Tiefschwarz	•	•
	Siemac T511005 SO	Gelb, hochdeckend	•	•
	Siemac T513005 SO	Rot, hochdeckend	•	•
	Siemac T515005 SO	Blau, hochdeckend		•
Siemac T516005 SO	Grün, hochdeckend		•	

Hilfsmittel

Verdünner	T00-017	Zugabemenge	15-30 Gew.-%
Verzögerer*	T00-018	Zugabemenge	5-20 Gew.-%
Beschleuniger	T00-019	Zugabemenge	15-30 Gew.-%

* In Abmischung zu Serie T00-017.

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Processing

Cliché

All commercially available clichés can be used.

Drying

Drying of Series 750 depends on the layer thickness as well as on the substrate.

Usual parameters (no addition of retarder):

Air	Physically drying
Dryer	Oven (recommended), 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 -GL	5-7 days (at minimum temperature)
Series 700 -HDI	5-6 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

Special Features & Tips

Dishwasher resistance	To improve dishwasher resistance we would recommend forced drying at 140°C during 20 minutes.
Outdoor resistance	The binder system used only allows a limited outdoor resistance .

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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11.02.2015	-	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 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.