

## TECHNICAL DATA SHEET IM-100 Pad Printing Ink

**IM-100** is a glossy, opaque, fast drying ink for single or two component use. When fully cured, it provides outstanding resistance to: **Single Component** - Food and General Packaging Suitable / Mechanical wear / Perspiration / \***Two Component** - Abrasion / Alcohols / Chemicals / Diluted Acids / \*Additional. (See back side of sheet for recommended substrates)

### USE INSTRUCTIONS

**\* Read Material Safety Data Sheets Prior To using \***

**IM-100** is a single or two component product supplied in a paste form.

#### Single Component:

Thinner ( if needed ) should be thoroughly mixed with the ink prior to using. During printing, the ink viscosity may be adjusted with thinner.

#### Two Component:

Ink and hardener should be thoroughly mixed prior to adding thinner ( if needed ). During printing, the ink viscosity may be adjusted with thinner.

Under most conditions, ink pot life will not exceed 8 hours.

A retarder may be added to slow drying rate during printing. ( normally for high room temperatures or multi-color use ) Recommended room temperature 70-78 degrees F. Recommended room humidity 30-50%.

### ADDITIVES

**\* See Ink Additives Chart for more listings \***

#### Hardener:

IM-H	10 : 1 Ratio by weight	For most applications
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#### Thinner:

IMT-FAST	1 To 15 % by weight	Faster
IMT-MED	1 To 15 % by weight	Medium
IMT-SLOW	1 To 15 % by weight	Slower

#### Retarder:

IM-100RT	1 to 3 % by weight	Single Component Ink
IMT-200RT	1 to 3 % by weight	Two Component Ink

### DRYING & CURING

**IM-100** dries to the touch within 15-30 seconds at room temperature. Drying time ( to the touch ) may be reduced with forced hot air @ 200 - 400 Degrees F. Normally, full cure is achieved after 1 to 2 days depending on curing temperature, time, and humidity. Heat curing is necessary for better adhesion and performance results.

### COLORS

**\* CUSTOM COLORS AVAILABLE UPON REQUEST \***

**IM-100 is available in:**

- \* 20 Standard Opaque Colors
- \* Standard Metallic Colors
- \* Process colors

Our IM Series Inks conform to US C.O.N.E.G. Legislation and European Standard EN 71, part 3 Safety of Toys (1989) For special applications - examples, Medical, Automotive, MIL-STD please call

### USE & STORAGE INFORMATION

**\* For more information see Material Safety Data Sheets \***

**IM-100:** Stir ink thoroughly before removing from container. Reseal lid tightly after using.

**Shelf Life:** 2 Years ( Original sealed container )

**HARDENER:** Reseal container immediately after using. Hardener is humidity sensitive. As moisture is absorbed the viscosity first increases, then forms crystals. Do not use when crystals first appear.

**Shelf Life:** 1 year ( Original sealed container )

**THINNER:** Reseal lid tightly after using.

**Shelf Life:** 2 years ( Original sealed container )

**RETARDER:** Reseal lid tightly after using

**Shelf Life:** 2 years ( Original sealed container )

**ADDITIVES:** Reseal lid tightly after using

**Shelf Life:** 2 years ( Original sealed container )

**STORAGE OF PRODUCTS:** At room temperature 60 to 80 Degrees F with low humidity.

**RECOMMENDED PRINTING SUBSTRATES (IM-100)**

**\* May Require Pretreatment\***

<b>SUBSTRATE NAME / CHEMICAL NAME</b>	<b>ASTM / ISO ABBREVIATIONS</b>	<b>PLASTICS FAMILY</b>	<b>TRADE NAME</b>
<b>THERMOPLASTICS</b>			
Acrylonitrile-Butadiene-Styrene	( ABS )	ABS	Cycolac
Polybutylene Terephthalate	( PBT )	Polyester	Hytrell
Polymethyl Methacrylate	( PMMA )	Acrylic	Acrylite
Polyphenylene Oxide *	( PPO )	Polyphenylene	Noryl
Polyamides	( PA )	Polyamides	Nylon
Polycarbonate	( PC )	Polycarbonate	Lexan
Polyester	( SP )	Polyester	Valox
Polyetherimide	( PEI )	Polyetherimide	Ultem
Polyethylene *	( PE ) ( HDPE ) ( UHMW )	Polyolefin	Petrothene
Polyethylene Terephthalate	( PET )	Polyester	
Polyimide	( PI )	Polyimide	Kapton
Polyphenylene Sulfide	( PPS )	Polyphenylene	Ryton
Polypropylene *	( PP )	Polyolefin	
Polystyrene	( PS ) ( HIPS )	Polystyrene	
Polyvinyl Chloride Rigid	( PVC )	Vinyl	
Styrene-Acrylonitrile	( SAN )	Copolymer	
Styrene-Butadiene	( SBP )	Copolymer	K-Resin
<b>THERMOSET</b>			
Phenol Formaldehyde Resin	( PF )	Phenolic	
Polyester Epoxy Resin	( EP )	Polyester	Cyglas
Polyurethane, Rigid *	( PU )	Urethane	
Urea Formaldehyde Resin	( UF )	Urea	Bakelite
<b>METALS</b>			
Aluminum	( Al )		
<b>MISCELLANEOUS SUBSTRATES</b>			
Ceramic			
Leather			
Paper			
Porcelain			
Wood			
<b>COATINGS &amp; PAINTS</b>			
Teflon Paint			
UV Coating *			
Miscellaneous Coatings & Paints			
<b>OTHERS</b>			
Cellophane *			
Formica			
Polycarbonate / ABS			Cycoloy
Thermoplastic Polyester Resin		Rynite	

**Disclaimer:**

The information and recommendations contained herein are believed to be reliable and accurate based on the data available to Imtran. However, we make no warranty, expressed or implied, regarding the accuracy of this data or the results obtained from the use of this product.