

## TECHNICAL DATA SHEET IM-200 Pad Printing Ink

**IM-200** is a glossy, two component, opaque, fast drying ink. When fully cured, it provides outstanding resistance to: Abrasion / Chemicals / Diluted Acids / Diluted Alkalis / Mechanical wear / Oil & Grease / Organic Solvents / Perspiration / Product Contents. (See back side of sheet for recommended substrates)

### USE INSTRUCTIONS

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

**IM-200** is a two component product supplied in paste form. Hardener must be added for production use. Ink and hardener should be thoroughly mixed prior to adding thinner. During printing, the ink viscosity may be adjusted with thinner (if needed). A retarder may be added to slow drying rate during printing. (normally for high room temperatures or multi-color use) Under most conditions, ink pot life will not exceed 8 hours. Recommended room temperature 70-78 degrees F. Recommended room humidity 30-50 %

### ADDITIVES

**\*See Additives Chart For More Listings\***

#### Hardener:

IM-H	4 : 1 Ratio by weight	For most applications
------	-----------------------	-----------------------

#### Thinner:

IMT-FAST	5 To 20 % by weight	Faster
IMT-MED	5 To 20 % by weight	Medium
IMT-SLOW	5 To 20 % by weight	Slower

#### Retarder:

IM-200 RT	1 to 3 % by weight	
-----------	--------------------	--

### DRYING & CURING

**IM-200** dries to the touch within 30 seconds at room temperature. Drying time may be reduced with forced hot air @ 200 - 400 Degrees F. Normally, full cure is achieved after 5 to 6 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-200 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\***

<b>IM-200:</b>	Stir ink thoroughly before removing from container. Reseal lid tightly after using. <b>Shelf Life:</b> 2 years (Original sealed container)
<b>HARDENER:</b>	Reseal container immediately after using. Hardener is humidity sensitive. As moisture is absorbed, the viscosity first increases, then starts forming crystals. Do not use when crystals first appear. <b>Shelf Life:</b> 1 year (Original sealed container)
<b>THINNER:</b>	Reseal lid tightly after using <b>Shelf Life:</b> 2 years (Original sealed container)
<b>RETARDER:</b>	Reseal lid tightly after using <b>Shelf Life:</b> 2 years (Original sealed container)

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

SUBSTRATE NAME / CHEMICAL NAME	ASTM / ISO ABBREVIATIONS	PLASTICS FAMILY	TRADE NAME
<b>THERMOPLASTICS</b>			
Acrylonitrile-Butadiene-Styrene	( ABS )	ABS	Cyclocac
Polyphenylene Ether	( PPE )	Polyphenylene	Prevex
Polyoxymethylene *1	( POM )	Acetal	Delrin
Polybutylene Terephthalate	( PBT )	Polyester	Hytrel
Polymethyl Methacrylate	( PMMA )	Acrylic	Acrylite
Cellulose Acetate	( CA )	Cellulosic	Tenite
Cellulose Acetate Butyrate	( CAB )	Cellulosic	
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
Polyimide Filaments	( PI )	Polyimide	Tynex
Polyphenylene Sulfide	( PPS )	Polyphenylene	Ryton
Polyphenylsulfone	( PPSO )	Sulfone	Udel
Polypropylene *	( PP )	Polyolefin	
Polysulfone	( PSO )	Sulfone	Udel
Polyvinyl Chloride Rigid	( PVC )	Vinyl	
<b>THERMOSET</b>			
Epoxy Resin	( EP )	Epoxy	Novolak
Phenol Formaldehyde Resin	( PF )	Phenolic	
Polyester Epoxy Resin	( EP )	Polyester	Cyglas
Polyurethane, Rigid*	( PU )	Urethane	
Urea Formaldehyde Resin	( UF )	Urea	Bake Lite
<b>METALS</b>			
Aluminum	( Al )		
Anodized Metal			
Brass			
Chrome Plate	( Cr )		
Copper	( Cu )		
Bronze			
Iron	( Fe )		
Steel			
Tin	( Sn )		
Titanium	( Ti )		
Miscellaneous Metals			
<b>MISCELLANEOUS SUBSTRATES</b>			
Ceramic			
Glass			
Wood			
<b>FLEXIBLE PLASTICS</b>			
Urethane, Flexible*	( PU )	Urethane	
<b>COATINGS &amp; PAINTS</b>			
Powder Coat			
Surlyn			
Teflon Paint			
Urethane Paint / Coating			
Miscellaneous Coatings & Paints			
<b>OTHERS</b>			
Acrylic Sheets & Molding Powders			Plexiglas
C-Resin *			
Formica			
Hostra			
Polycarbonate / ABS			Cyclocay
Thermoplastic Polyester Resin			Rynite
Viton			

**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.