

# Technical Information

Screen Inks | Packaging Printing



## PAD - PDC

Quick drying, Glossy finish, Opaque

### Substrates

PVC, Polycarbonate, Acrylic, ABS, Polystyrene, HIPS

### Application

Packaging containers, molded articles, gift novelties, etc

### Characteristics

- Quick drying with excellent transfer property – suitable for wet - on - wet printing
- Excellent adhesion
- High gloss finish with high opacity
- Good resistance to water, detergents, lubricants, etc

### Drying

The print becomes surface dry in 1 to 3 min. and hard dry in 20 to 30 min. at a temperature of 25° C making them suitable for stacking. It takes about 5 to 7 min. to become hard dry when passed through a tunnel oven at 50 to 70° C

### Range

PAD - PDC Matching System - Almost any shade can be matched by mixing the selective inks of the matching system which comprises of the basic shades as follows

PAD PDC Clear Base	PDC - 0100		
Match Light Yellow	PDC - 101	Match Violet	PDC - 141
Match Mid Yellow	PDC - 102	Match Ultra Blue	PDC - 151
Match Deep Orange	PDC - 111	Match Deep Blue	PDC - 152
Match Scarlet Red	PDC - 121	Match Green	PDC - 161
Match Carmine Red	PDC - 122	Match Tinting White	PDC - 171
Match Magenta	PDC - 131	Match Tinting Black	PDC - 181
Mixing Clear Base	PDC - 191	Mixing Extender Base	PDC - 192

## Spot Colours

Bright Yellow	PDC - 201	Sky Blue	PDC - 251
Light Yellow	PDC - 301	Royal Blue	PDC - 252
Mid Yellow	PDC - 302	Reflex Blue	PDC - 253
Light Orange	PDC - 211	Yellow Green	PDC - 261
Deep Orange	PDC - 311	Grass Green	PDC - 262
Vermilion	PDC - 221	Forest Green	PDC - 263
Scarlet	PDC - 322	Opaque White	PDC - 271
Brilliant Red	PDC - 223	Brilliant White	PDC - 272
Purple	PDC - 241	Dense Black	PDC - 281

## Matching Colour

PAD PDC Buff	PDC - 1001
PAD PDC Castell White	PDC - 1002
PAD PDC Blue	PDC - 1003
PAD PDC Light Blue	PDC - 1004
PAD PDC Popular Red	PDC - 1008
PAD PDC Cello Red	HS - 6148
PAD PDC Cello Black	HS - 6149
PAD PDC Cello White	HS - 6150

## Process Colours

Cyan	PDC - 401
Magenta	PDC - 402
Yellow	PDC - 403
Black	PDC - 404

By adding Clear Base PDC - 191, the ink density can be reduced. The ink density can be increased by adding ink concentrates for the process colours in required proportion or by using a coarser mesh.

## Metallic Inks (Bronzes)

Rich Gold	SH - 801
Rich Pale Gold	SH - 802
Silver	SH - 804
Metallic Clear Base	PDC - 191

Recommended mixing ratio of Metallic Gold Pigment with PDC - 191

Recommended mixing ratio of Metallic Silver Pigment with PDC - 191

The metallic ink made by mixing the metallic pigment with Metallic Clear Base should be processed within 6 - 8 hours

## **Auxiliaries**

Rheology Improver - RIPAD - 931 can be added 10 to 20 % to the ink to get a desired consistency

Rheology Improver (Slow) RIPAD - 9073 can be added 10 to 20 % to the ink to get a desired consistency when required to make the ink slow drying. Even a suitable combination of the both rheology improver can be used to get a desired retarding effect

Quick Rheology Improver : RIPAD - 0933 can be used instead of RIPAD - 931 for very high speed printing jobs

**Please note** - Material Safety Data Sheet is available on request

## **Shelf Life**

At least 12 months when stored under the correct condition

(Protected against heat and light at 30°C)

**Note** - This information is compiled based upon field experience and extensive laboratory testing. However, customers are requested to satisfy themselves that the products meet their requirements in all respects before starting a print run. Since the printing conditions are not under our control, no guarantee can be given for their performance.