

Technical Information

Screen Inks | Packaging Printing



PAD - PDP

Quick drying, Glossy finish, Opaque

Substrates

Pre - treated Polyethylene and Polypropylene, PVC, Polycarbonate, Acrylic, ABS, Polystyrene, HIPS

Application

PAD - PDP are solvent-based pad printing inks with quick drying, excellent transfer property, specially developed for the following applications

- Packaging containers, molded articles, gift novelties etc
- By adding Hardener HRD - 621, the ink can also be used to print on thermosetting plastics, coated substrates and metal. With the addition of the hardener, further improvement in respect to adhesion, mechanical resistance, water resistance and resistance to lubricants and detergents can be achieved

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 - 7 min. to become hard dry when passed through a tunnel oven at 50 to 70° C

Range

Micro PAD - PDP 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

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

Spot Colours

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

Matching Colours

Fanta Blue	PDP - 5504	Fanta Green	PDP - 5505
Coca Cola Red	PDP - 5506	Cyclo Free Green	PDP - 1043
PAN 47975C Brown	PDP - 1058	Cyclo Free Red	PDP - 1044
Toned White	PDP - 1036		

Process Colours

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

By adding Clear Base PDP - 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	PDP - 191

Recommended mixing ratio of Metallic Gold Pigment with PDP - 191 (without hardener) is 1:4 to 1:6

Recommended mixing ratio of Metallic Silver Pigment with PDP - 191 (without hardener) is 1:4 to 1:6

Mixing ratio of mixture of metallic pigment & Clear Base with Hardener HRD - 621 is 10:1

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) - RIROT - 0935 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 Retarder with the Reducer can be used to get a desired retarding effect.

Fast Dry Rheology Improver - RIPAD - 0933 can be used instead of RIPAD - 931 for very high speed printing jobs.

Over Print Varnish PDP - 1041 - For improvement of scratch and fade resistance of the print

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.