

Speciality Screen Inks

Battery Jackets,
Container/cellaware Decoration

POLYDYNE YN

Screen Printing ink for untreated and
pre-treated polypropylene and polyethylene substrates

Features

- Solvent based
- Single pack ink
- Satin finish
- Excellent screen stability and self solvency
- Resistance to battery acid, water, bleach, detergents, alkalis & motor oil
- Suitable for machine and manual printing by screen
- Unlimited Colour Matching Capability

Substrate

Untreated and pre-treated polypropylene
and polyethylene

**TEST INKS ON SUBSTRATES
BEFORE PRODUCTION RUN**

SERICOL
More than ink...Solutions.
FUJIFILM

Thinning

Maximum of 15% by weight of ink used. Various options for thinning are available. Please refer to section on 'Solvents'.

Mesh

Print Polydyne YN inks through 90/cm to 120/cm, monofilament polyester fabric, depending on the application.

Stencils

Stencils can best be prepared with Sericol's stencil making products:

Xtend Prep 101 for abrasion of screen

Xtend Prep 102 for degreasing of screen

Emulsions: Dirasol 132 (single pack) or

Dirasol 915 (two-pack).

Drying

Air dry: 15 to 20 minutes. Do not stack prints immediately. Allow sufficient time for through cure.

Jet Dry: 60 degree Centigrade, for up to 20 seconds. Prints must be cooled to ambient temperature before stacking.

Convection Oven: 70 degree centigrade for 1 to 2 minutes.

Coverage

Polydyne YN inks should give coverage of 55 to 65 sq.m./ kg, when printed through a 120/cm mesh.

Wash Up

Wash up screens with SS-639 Universal Screen Wash. This will ensure long life of stencils made with Dirasol emulsions.

Pre-Production Test

End user must determine suitability of this product for the intended use prior to production.

Always test for adhesion and other properties before each production run because there can often be significant differences between substrates from different manufacturers and even between different batches.

Storage

- Keep inks in a cool place, away from direct sunlight.
- Keep lids tightly closed when not in use
- Any unused ink should not be returned to the can, must be stored separately
- Shelf life is two years from the date of manufacturing
- Stir well before every use.

Applications

The Polydyne YN inks are widely used for screen printing on battery jackets, celloware and containers made of untreated polypropylene.

These inks can also be used for decoration of pre-treated polyethylene containers.

Polydyne YN White (YN-021) or Extender Base (YN-381) may be used as a primer or base coat on pre-treated fluted polypropylene substrates. This would then readily accept Polyplast IN & Polyplast IN EL inks. This enables production of high gloss prints in halftones and a wide range of colours.

Note: Polydyne YN inks are not recommended for prolonged outdoor exposure applications.

Product resistance

Polydyne YN inks have resistance to a number of household and industrial products, including water, battery acid, bleach, washing liquid, sodium hydroxide and motor oils.

Colour Range

The Polydyne YN Ink System consists of 11 standard, intermixable, lead free colours, which include the Seritone Matching System.

Standard Colours:

YN- 001 Polydyne YN Black
YN- 021 Polydyne YN White
YN- 064 Polydyne YN Seritone Yellow (GS)
YN- 066 Polydyne YN Seritone Yellow (RS)
YN- 114 Polydyne YN Seritone Orange
YN- 121 Polydyne YN Seritone Red (YS) / Vermilion
YN- 164 Polydyne YN Seritone Red (BS)
YN- 127 Polydyne YN Seritone Violet
YN-165 Polydyne YN Seritone Magenta
YN- 230 Polydyne YN Seritone Blue
YN- 325 Polydyne YN Seritone Green
YN- 381 Polydyne YN Extender Base

Colour Matches

Colour matches can be supplied against prints and / or wet samples.

Solvents

SS-521	Reducer
SS-529	Slow Reducer (Retarder)
SS-639	Universal Screen Wash

The slow reducer will increase the drying time of print, whilst the reducer will not change the normal drying time of print.

Safety and Handling

All colours except YN-021 White and YN-381 Extender Base contain barium and therefore should not be used on objects liable to be sucked or chewed by children.

Comprehensive information on the safety and handling of Polydyne YN screen inks and solvents is given in the Material Safety Data Sheet, which is available on request.

Environmental Information

Polydyne YN is free from heavy metals and does not contain ozone-depleting chemicals as described in the Montreal Convention.

The information and recommendations contained in this Product Information sheet, as well as technical advice otherwise given by representatives of our Company, whether verbally or in writing, are based on present knowledge and believed to be accurate. However, no guarantee regarding their accuracy is given as we cannot cover or anticipate every possible application of our products and because manufacturing methods, printing stocks and other materials vary. For the same reason our products are sold without warranty and on condition that users shall make their own tests to satisfy themselves that they will meet fully their particular requirements. Our policy of continuous product improvement might make some of the information contained in this Product Information sheet out of date and users are requested to ensure that they follow current recommendations



International Standards
Certification
R.No: QACR/0909

International Standards
Certification
R.No: EMSR/0919

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