

SunPromo™ YN™ Technical Data Sheet

SunPromo YN series screen inks can be processed as either a one-component or two-component system for use on pretreated polyolefins (i.e. high and low density polyethylene), polypropylene, acrylics, rigid PVC, and styrene. These inks are suitable for duroplastics such as fiberglass, reinforced polyester, epoxide reinforced substrates, phenoplasts, aminoplasts and varnished substrates.

typical characteristics and features

SunPromo YN inks are formulated to have the following properties:

- Can be used as one-component or two-component system
- High gloss finish
- Good flow-out and excellent opacity

Note: Pretest all substrates prior to use in production.

technical information and handling

Characteristics

One Component Processing: When processed as a one-component system, SunPromo YN series inks dry by solvent evaporation only and will exhibit limited resistance properties.

Two Component Processing: If unreceptive substrates are to be used, or if end-use requirements necessitate resistance to various chemicals, solvents or cosmetics, SunPromo YN series inks must be processed as a two-component system by mixing 10 parts of ink (by weight) with 1 part ZH Hardener. Allow 2 – 3 days after initial printing to allow film will exhibit full resistance properties.

Note: After the addition of SunPromo ZH Hardener, the pot-life of SunPromo YN series inks will be limited to approximately 6 – 10 hours at room temperature.

Colors

SunPromo YN series inks are available in SunMatch™ blending shades and four (4) color process inks.

Modification

Prior to processing, the viscosity of SunPromo YN inks can be adjusted approximately 5– 25% by weight using one or a combination of the following modifiers: SunPromo YNV, SunPromo YND and SunPromo UV4.

Hardener

As previously mentioned in the section on two component processing, adhesion and resistance properties of SunPromo YN inks can be enhanced with the use of SunPromo ZH Hardener at 10% by weight. The resultant ink / hardener blend will have a pot life of 6 – 10 hours at room temperature.

Product Code	Description	SAP Number
SunPromo YN-Y30	Primrose	90822953
SunPromo YN-Y50	Golden Yellow	90822954
SunPromo YN-O50	Orange	90858518
SunPromo YN-R20	Scarlet	90822914
SunPromo YN-R50	Red	90822915
SunPromo YN-M50	Magenta	90822958
SunPromo YN-V50	Violet	90858495
SunPromo YN-B50	Blue	90822910
SunPromo YN-G50	Green	90822912
SunPromo YN-N50	Blending Black	90822913
SunPromo YN-W50	Blending White	90858387
SunPromo YN-E50	Mixing Clear	90858522
SunPromo YNV	Thinner	90012340
SunPromo VZ-25	Hetarder (Replaces YND)	90846712
SunPromo UV4	Retarder	90015337 QT
SunPromo UV4	Retarder	90015336 GAL
SunPromo ZH	Hardner	90814981
SunPromo YN-TP	Transparent Base	90822955
SunPromo YN-180	Euro Process Yellow	90871002
SunPromo YN-181	Euro Process Magenta	90861432
SunPromo YN-182	Euro Process Cyan	90871003
SunPromo YN-76MG	76 MG Gold	90822891
SunPromo YN-78MG	78 MG Copper	90871011
SunPromo YN-79MG	79 MG Silver Metalure	90822899

In accordance with information received from suppliers, the full SunPromo YN series is formulated without heavy metals and complies with: 16 CFR, Part 1303; ANSI Z66, 1-1964; ASTM F 963; CONEG packaging regulations; EC Packaging Waste Directive EC/94/62; EN71m section 3; RoHS 2002/95/EC; WEEE 2002/96/EC; E2003/11/EC.

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Stencil

Direct photoemulsion, capillary film, indirect stencils or solvent-resistant, hand-cut films.

Squeegee

Medium to hard durometer urethane squeegee.

Screen mesh

200 – 305 / inch (80 – 120 / centimeters) monofilament polyester mesh.

coverage

When printed through a 230 / inch (90 / centimeters) mesh, one gallon of SunPromo YN inks will cover approximately 1200 square feet.

drying

SunPromo YN series inks dry according to the following schedule (with or without hardener):

Room Temperature Drying:

- Surface”dry at room temperature in approximately ten (10) minutes
- “Through”dry at room temperature in approximately sixty (60) minutes

Oven Temperature Drying:

- “Through”dry at 160 – 180°F (70 – 80°C) in approximately two (2) minutes

Completely Cross-Linked:

- 2 – 3 days after initial printing

wash-up

SunPromo YN series inks may be cleaned from screens and processing equipment with any suitable commercial screen wash, such as SunPromo VL Wash.

safety, health and environment

SunPromo YN inks should be used in accordance with normal standards of industrial hygiene and good manufacturing practice. Please refer to the supplied Material Safety Data Sheet for specific information. Material Safety Data Sheets will be supplied.

Printing inks, coatings and printing residues should be disposed of in accordance with local and national regulations.

The information contained in this technical data sheet is only a recommendation and may need to be altered to suit the conditions and efficiency of the equipment employed. Our products are not designed for use in conjunction with those of any other ink maker or similar supplier unless agreed to in writing.

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11.2011

