SunPromo C70 Technical Data Sheet

SunPromo C70 multi-grip is a low-odor, fast-drying, multi-purpose, high-gloss ink with outdoor durability and adhesion to a wide variety of paper and plastic substrates.

typical characteristics and features

SunPromo C70 inks are formulated to have the following properties:

- Fast drying
- High gloss
- Outdoor durability

technical information and handling

Process colors

All process colors match the SWOP standards. Color density may be adjusted by adding SunPromo C70-S139 Process Base.

Screen mesh

Typically 255 – 305 / inch (100 – 120 / cm) mesh. Finer meshes can be used for 4-color process printing.

Squeegee

Recommended to use a medium to hard durometer urethane squeegee.

Stencil

Direct photo emulsion, capillary film or other solvent resistant stencil.

Drying

SunPromo C70 multigrip is fast drying providing screen stability, and is especially suitable for use on high-speed screen printing equipment, such as cylinder presses or reel-to- reel label presses. Single layer prints of SunPromo C70 multigrip can dry in 10 – 15 seconds at 140°F (60°C) through a jet dryer. As with all solvent- based inks, subsequent ink layers may require slightly longer drying time.

Product Code	Description	SAP Number
SunPromo C70-130	SunMatch - Primrose	90074952
SunPromo C70-150	SunMatch - Golden Yellow	90074953
SunPromo C70-050	SunMatch - Orange	90074941
SunPromo C70-R20	SunMatch - Scarlet	90074942
SunPromo C70-R50	SunMatch - Red	90074943
SunPromo C70-M50	SunMatch - Magenta	90074938
SunPromo C70-V50	SunMatch - Violet	90074949
SunPromo C70-B50	SunMatch - Blue	90074934
SunPromo C70-G50	SunMatch - Green	90074937
SunPromo C70-N50	SunMatch - Blending Black	90074939
SunPromo C70-W50	SunMatch - Blending White	90074950
SunPromo C70-E50	SunMatch - Mixing Clear	90074936
SunPromo C70-N501	Opaque Black	90074940
SunPromo C70-N502	Special Hi-Gloss Opaque Black	90033676
SunPromo C70-W501	Opaque White	90074951
SunPromo OPC-190	Overprint Clear	90041681
SunPromo C70-S131	Process Yellow	90074944
SunPromo C70-S135	Process Cyan	90074945
SunPromo C70-S139	Process Base	90074946
SunPromo C70-S140	Process Magenta	90074947
SunPromo C70-S171	Process Black	90074948
SunPromo MAT-190	Matte Additive	90052008
SunPromo GEL-100	Gelled Retarder	90065032
SunPromo ST-280	Overprint Clear Reducer	90020024
SunPromo ST-212	Reducer	90020016
SunPromo ST-303	Retarder	90020036
SunPromo ST-355	Adhesion Promoter	90020053

Note: In accordance with information received from suppliers, the full C70 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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Substrates

SunPromo C70 multigrip can be used on the following:

- Screen printed onto pressure-sensitive vinyl
- Rigid vinyl
- Styrene
- Polycarbonate
- Surface-treated polyester
- Acrylic, most coated paper / board and some fiberglass surfaces
- Most coated paper / board and some fiberglass surfaces

Note: Adhesion can adversely affect the inherent properties of certain substrates, sometimes a considerable period after printing. For example, plasticizer can migrate onto the surface of self-cling vinyl; calendared vinyl may be manufactured with lubricants to enhance surface slip; higher-gauge plastics can be contaminated by adhesive left, after removal of their protective sheets. Although multiple-layers of SunPromo C70 multigrip can be successfully superimposed, flexibility will gradually decrease as total ink deposit increases.

If SunPromo Adhesion Promoter is added, SunPromo C70 multigrip can also be printed on fluted polypropylene sheet such as Coroplast™, Hycor™, Cor-X™ or other, similar substrates. SunPromo C70 multigrip is recommended for printing P.O.P. displays, vacuum-formed products, bookcovers, membrane faceplates, advertising specialties, novelties and many other display and packaging applications. Pretest all substrates prior to use in produciton.

Modification

To reduce the viscosity of SunPromo C70 can be reduced with approximately 10 – 20% by weight of SunPromo Reducer ST-212. For exceptionally fine detail printing, or under adverse ambient conditions, either SunPromo Retarder ST-303 or SunPromo Gelled Retarder GEL-100 can be substituted for all or part of the reducer. The restricted flow of SunPromo Gelled Retarder allows better print definition, particularly for reverse detail or 4-color process printing. To reduce the gloss for SunPromo C70 add up to 20% by weight of SunPromo Matte Additive MAT-190 can be used to reduce gloss. A 10% addition allows a satin finish, whereas a 20% addition allows a less reflective, more matte finish. To promote adhesion for SunPromo C70 multigrip for fluted polypropylene sheet may be achieved by the addition of 1% by weight of SunPromo Adhesion Promoter ST-355. After addition, ink will only be useable for 24 – 48 hours.

Note: The use of SunPromo Retarder or SunPromo Gelled Retarder may decrease drying speed; ensure that drying is adequate before commencing a full production run. As with all inks, decreasing gloss may render prints more susceptible to slight surface scuffing.

overprinting

For most applications, SunPromo C70 mixing clear can be used to overprint SunPromo C70 multigrip colors. For maximum exterior durability an alternative product, SunPromo overprint clear, is recommended. This is specially formulated for use only as an overprint clear, and is slightly slower drying than SunPromo C70 multigrip products. If required, SunPromo overprint clear can be reduced with 5–15% by weight of SunPromo overprint clear reducer.

Note: Pretest overprint clear prior to use in production.

coverage

Recommended to use a 255 / inch (100 / cm) mesh, one gallon of SunPromo C70 multigrip will cover approximately 1,500 square feet.

wash-up

SunPromo C70 inks can be cleaned from screens and processing equipment with any suitable screen wash, such as SunPromo VL Wash.

storage considerations

If SunPromo C70 inks are stored in temperatues between 40° – 90°F (5 – 32°C), these coatings have a shelf-life of twenty-four (24) months.

safety, health and environment

SunPromo C70 inks should be used in accordance with normal standards of industrial hygiene and good manufacturing practice. Please refer to the supplied Safety Data Sheet for specific information. Safety Data Sheets will be supplied.

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

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