



QS-9000/ISO 9001 Registration #60047

Technical Data Sheet:

202

Date:

May 15, 2001

Product: Ultra Gel

HG0180

FEATURES

Short body and very low wet tack for easy printing. Fast shearing action means higher press speeds. Easy to use, no viscosity modifications necessary. Can be tinted with up to 30% Color Boosters to make Gel Colors. Extreme high gloss and clarity when printed in thick film. Functions as an adhesive for foil transfers.

DESCRIPTION

HG0180 Ultra Gel is formulated as a press-ready plastisol for printing on 100% Cotton fabrics or over a low bleed underlay on poly/cotton. This product has excellent edge definition when stacked for that 3D look.

APPLICATION

HG0180 requires stirring before printing. Print HG0180 directly onto substrates or over an underlay. HG0180 is normally printed through mesh ranges from 86 - 110 mc./in. You may print through finer mesh to achieve fine details with less height. Recommend 60 Durometer squeegee and thick film for superior edge definition when stacking. For high gloss, cure at higher temperature and longer times.

RECOMMENDED PRINTING TECHNIQUES

Manual Machine Printing

- Load ink into mesh opening with soft, sharp squeegee. Only the image area should be filled with ink. Transfer ink to the fabric surface with a light squeegee pass using just enough pressure to clear the mesh.

Automatic Machine Printing

- Examine the flood bar and smooth edges if necessary. Adjust the flood to just transfer the ink from the front to the back of the screen. Transfer ink to the fabric surface with a light squeegee pass using just enough pressure to clear the mesh.

SPECIAL RECOMMENDATIONS

Plastisols are THERMOPLASTIC, requiring heat for fusion. Test print area for crock fastness. Should color rub off on white cloth, adjust oven temperatures and/or dwell time until crock test passes (cloth wipes clean). Stir plastisols prior to printing. Do not dry clean. Do not use bleach. Do not iron image area.

HG0180 is available in 5-gallon pails only. Each 5 gallon pail will be packaged with only 4 gallons of product to allow stirring of the product.

Any application not referenced in this technical data should be pretested or consultation sought with Rutland's Applications Laboratory prior to printing.

TECHNICAL DATA

Wet Ink Tack - Low

After Flash Tack - Medium

Printability - Great

Surface Appearance - High Gloss

Opacity/Viscosity - Low/High

Bleed Resistance - N/A

Gel Point / Flash Time - 160°f. / decreases with deposit thickness

Fusion Temperature - 320° f.

Squeegee Hardness/ Blade/ Angle - Soft/ Sharp/ 45°

Squeegee Speed - Medium to High

Underlay - depending on the fabric

Emulsion - Capillary Film

Mesh Count - 86 - 156 mc. In.

Extender - N/A

Thickener - N/A

Storage - 65°F to 95°F. Avoid direct sun

Cleanup - Mineral Spirits, Varsol or some non-hazardous screen washes

MSDS - #7

Color Range - HG0180 Ultra Gel Clear

Substrate Type - Cotton or underlay

Substrate Color(s) - Light, Medium, & dark fabrics.

Note:

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