DESCRIPTION:
ProCure UV-595 is a UV Curing Overprint Gloss Varnish for vinyl. It has been formulated for use in exterior applications of good quality vinyl films of all types.

SUITABLE APPLICATIONS:
It is suitable for use on pressure sensitive vinyl films, intended for use as car-wrap applications, as well as for outdoor signage. It exhibits excellent flexibility and elongation, as well as abrasion resistance, weathering ability and chemical resistance, that is required for fleet graphic applications. It is also suitable for use on decals, and can be processed using all standard converting techniques.

<table>
<thead>
<tr>
<th>KEY FEATURES</th>
<th>BENEFITS</th>
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<tr>
<td>• Exhibits excellent flexibility &amp; elongation.</td>
<td>• Ideally suited for fleet graphic applications.</td>
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<td>• High degree of abrasion &amp; scratch resistance.</td>
<td>• Designed for use on car-wrap and vehicle signage applications.</td>
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<td>• Excellent weathering ability and chemical resistance.</td>
<td>• Designed for use on all vinyl substrates, intended for exterior applications.</td>
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<td>• Excellent adhesion to PVC substrates as well as to inks.</td>
<td>• Can be processed using all standard converting techniques.</td>
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<td>• Fast curing and high gloss film.</td>
<td>• Good leveling and very smooth &amp; slick film.</td>
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<td>• Contains UV light absorbers to extend outdoor durability.</td>
<td>• Provides added weatherability, durability to ink colors and print surface protection.</td>
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APPLICATION & PRINTING CONDITIONS:
Roller: Suitable for use on matte or gloss substrates.
Silk Screen: Suitable for use on matte or gloss substrates.
Stencil: UV ink compatible direct emulsion or capillary films; solvent resistant.
Mesh: 300 to 400 polyester monofilament mesh; dependent upon required film thickness.
Squeegee: Polyurethane type. 70 to 90 durometer hardness.
Coverage: 2000 to 4000 square feet per gallon, dependent upon film thickness required.

SPECIFICATIONS:
Composition: Proprietary mixture of oligomers, acrylate monomers; photoinitiators and additives.
Viscosity: 1050 ± 150 (cP @ 77 deg.F) (Brookfield RVT #4 @ 50 rpm)
Appearance: Light Amber Liquid
Odor: Mild Acrylic
Weight /Gallon: 9.10 Lb/Gal.
Solvent: None.
Solids Content: ≧ 99 (%)
ProCure UV-595
Technical Data Sheet

CURING:
UV lamp specs: Medium pressure Mercury Vapor Lamp. 200 to 300 Watts per inch.
Belt speeds: 50 to 100 feet per minute.
UV Light Conditions:
• Cure using a single or multiple rows of UV lamps.
• Using the above guidelines, suitable curing parameters will have to be determined under the actual production conditions.
• The main parameters governing cure are: belt speed; bulb wattage; condition of UV bulbs and condition of reflector.
• The bulb intensity deteriorates with age and the reflector surfaces tend to get dirty due to deposits from air borne contaminants. Periodic maintenance is crucial.

WEATHERING & OUTDOOR DURABILITY:
ProCure UV-595 must be printed at full strength and properly cured to provide 3 years outdoor durability in the central U.S.A. when mounted vertically.

Outdoor durability cannot be specified exactly. Slight color change and loss of gloss should be expected. Variables affecting a printed piece’s durability include:
• Ink film thickness and degree of curing
• Substrate type
• Age of substrate
• Mounting angle and directional orientation
• Geographic location
• Air pollution
• Exposure to excessive abrasion

Fluorescent colors fade quickly with exposure to UV light and are not recommended.

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<thead>
<tr>
<th>ProCure UV-595</th>
<th>QUV Weatherometer Exposure Results</th>
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</thead>
<tbody>
<tr>
<td>Initial</td>
<td>500 Hrs.</td>
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<tr>
<td>60 deg. Gloss Loss</td>
<td>None</td>
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<tr>
<td>Color Change (Yellowing)</td>
<td>None</td>
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<tr>
<td>Cracking</td>
<td>None</td>
</tr>
<tr>
<td>Blistering</td>
<td>None</td>
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</tbody>
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WASH UP INSTRUCTIONS:
Wash with suitable solvents or other approved cleaner. Take care to avoid contaminating varnish with cleaners.

STORAGE:
Protect from direct sunlight. Do not store below 32°F or above 120°F. Keep product from freezing. Store product in container with lid tightly closed.

AVAILABLE PACKAGE SIZES:
55 gallon drum -------------- #07909-D5516
5 gallon pail -------------- #07909-P5014
1 gallon bottle -------------- #07909-B1203

Rating Scale:
None
Trace
Slight
Medium
Heavy

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