



3000-405 Overprint Varnish (Weathering Resistance)

Technical Data Sheet

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3000-405 has been formulated to maximize outdoor durability performance. It has good resistance to a variety of products including Petrol, Alcohol and Battery Acid. 3000-405 is designed for printing over Smiley 3001 series.

Substrates: Self Adhesive Cast Vinyl, Soft PVC.

USER INFORMATION

Mesh: 120-34 Mesh/cm monofilament polyester is recommended for most applications.

Stencil: Solvent resistant emulsions or 25 micron capillary film
Recommended:
6060-216 Dual Cure Graphic Emulsion

Squeegee: 60-80 durometer polyurethane squeegee.

Coverage: 55-65 M²/Kilo (120 Mesh/cm) depending upon ink deposit.

Pre-Production Test:

Stir well before every use. Always test application fully before beginning a production run as the addition of Overprint varnish may affect performance, finish and adhesion of a particular ink range.

Printing:

Maintain varnish temperature at 65°-90°F (18°-32°C) for optimum print drying performance. Lower temperatures increase the varnish viscosity, impairing both flow and drying. Elevated temperatures lower the viscosity, reducing print definition and film thickness.

Drying:

Air dry – Air dry for 20-30 minutes.

Jet dry – Jet dry at 55-65°C for 30 seconds.
Complete drying of 30 minutes at 60°C is recommended.

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Thinning and Wash-up: Retarder: Use 4030-001 Retarder to slow down the drying time. Add up to 10-15% by weight.
Wash-up: Use 4050-003 Screen Wash and Cleaner.

GENERAL INFORMATION

Handling & Storage:

- 3000-405 Weathering Resistance Overprint Varnish is formulated free of lead and other heavy metals.
- It is recommended to wear suitable protective gear such as glasses and gloves. Take particular care to avoid splashes into the eyes and skin contact. If the ink comes in contact with skin, wash with soap and plenty of water. If varnish comes in contact with eyes, wash with plenty of water and consult with a doctor.
- Comprehensive information on the safety and handling of 3000-405 overprint varnish is given in the appropriate Smiley Material Safety Data Sheet (MSDS), which are available upon request.
- Store tightly covered at temperatures between (18°-25°C).
- Tins should be kept tightly closed when not in use.
- After combining parts A and B, the approximate pot life of the ink will be 5 to 7 hours.

Environmental Information:

- Do not contain ozone depleting chemicals.
- Overprint Varnish should be disposed properly (see MSDS) and in accordance to local regulations to avoid contamination.

Recommended Stencil Making Products:

- Screen Preparation
 - Mesh Preparation 6050-300 – for abrasion
 - Mesh Degreaser 6050-200 – for degreasing
- Screen Emulsion
 - Dual Cure Graphic Emulsion 6060-216
 - One Pot Graphic Emulsion 6060-401
- Screen Cleaning
 - Ghost Remover 6070-100
 - Stain Remover 6070-001
- Screen Reclaiming
 - Stripping Powder 6070-200

Additional Information For additional product information, please visit our website at <http://www.smiley.co.th>. For further information, please contact SPS personnel at medhi@smiley.co.th.

Thank you for choosing **SMILEY**.

PRODUCT OFFERING:

Packaging:

3000-405 is available in 1 Kilo, 5 Kilos and 20 Kilos containers.

Smiley Printing Solution Co., Ltd. (SPS), abides by the quality of this product. The information and recommendations that embody this Technical Data Sheet along with the technical advice are based solely on our knowledge and therefore confident to be precise. This product has been specifically formulated for screen printing. SPS cannot guarantee the precision for other possible application for the reason that manufacturing methods and other materials vary. Any liability amalgamated with the use and application of these products, users are the sole bearer of responsibility for choosing appropriate product for end-users' requirement. This Technical Data Sheet is provided for the technical purpose in the usage of this product and users are expected to follow current recommendation.

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