

The OP1003 is formulated to be non-bleeding and lower odor than other UV Varnishes. The OP1003 exhibits higher gloss than the OP1001 and is specifically formulated for Tag and Label printing. The overprint varnish has excellent rheology characteristics making it ideal for most printing equipment, and product applications.

SUBSTRATES

Pressure sensitive vinyls, top coated and print treated polyester, BOPP films, polyethylene, polystyrene and some paper & board.

TYPICAL PROPERTIES OF OP1003

Target viscosity: 400cps @25° C

Slide angle* face to face: 8-12°

Rub Resistance: >500 cycles-4lb weight, face to face

MEK Resistance: >50 double rubs

60° Gloss* : >80

*Cured film properties depend on the substrate, cure and coating thickness.

USER INFORMATION

While technical information and advice on the use of this product is provided in good faith, the User bears sole responsibility for selecting the appropriate product for their end-use requirements. See full disclaimer at the end of the document.

ANILOX ROLLS

180-360 line (cells per inch) corresponding to a volume from 8.0 to 5.0 bcm.

DOCTOR BLADES

Reverse angle doctor blade is recommended.

PLATES

OP Series varnishes are compatible with most UV Flexo plates.

PRINTING

OP Series varnishes can be printed over Nazdar® Rotary Screen, UV Flexo and Water Base Flexo inks.

The OP Series varnishes are formulated to be press ready. Thoroughly mix the varnish prior to printing. Maintain temperature at 65°-78°F (18°-25°C) for optimum print and cure performance. Pretest to determine optimum printing performance for each clear, substrate, anilox, press, curing variables/conditions and any post printing processes.

The OP Series varnishes can be affected by stray UV light in and around a printing facility. Be aware of skylights, windows and overhead lights curing the varnish. Light filters are recommended. Keep containers covered when not in use.

CURE PARAMETERS

OP Series varnishes are formulated to cure using a medium pressure mercury vapor lamp set at 300-600 watts per inch.

These guidelines are intended only as starting point for determining cure parameters, which must be determined under actual production conditions.

CLEAN UP

Use NWC10 EZ Cleaner

STORAGE

OP Series varnishes in unopened containers will have at least 6 months shelf stability when stored tightly covered at temperatures between 65°-90°F (18°-32°C). Varnishes taken from the press should not be returned to the original container; store separately to avoid contaminating unused varnish.

GENERAL INFORMATION

PRODUCT HANDLING

Wear gloves and barrier cream to prevent direct skin contact. Safety glasses are suggested in areas where product may be splashed. If product does come in contact with skin, wipe coating off with a clean, dry cloth (do not use solvent or reducer). Wash the affected area with soap and water. Consult the OP1003 Series Material Safety Data Sheet for further instructions and warnings.

ADHESION TESTING

Even when recommended UV energy output levels are achieved, it is imperative to check adhesion on a **cooled down** print:

1. Touch varnish surface – the varnish surface will be smooth and slick.
2. Thumb twist – the varnish surface will not mar or smudge.
3. Scratch surface – the varnish surface will resist finger nail scratching.

Tape test – apply 3M #610/810 clear tape, rub down, and rip off at a 180 degree angle. Varnish should not come off.

Nazdar® stands behind the quality of this product. Nazdar® cannot, however, guarantee the finished results because Nazdar® exercises no control over individual operating conditions and production procedures. While technical information and advice on the use of this product is provided in good faith, the User bears sole responsibility for selecting the appropriate product for their end-use requirements. Users are also responsible for testing to determine that our product will perform as expected during the printed item's entire life-cycle from printing, post-print processing, and shipment to end-use. This product has been specially formulated for flexo printing, and it has not been tested for application by any other method. Any liability associated with the use of this product is limited to the value of the product purchased from Nazdar®.

Based on information from our raw material suppliers, these products are formulated to contain less than 0.06% lead. If exact heavy metal content is required, independent lab analysis is recommended.

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