

## TECHNICAL DATA SHEET

The 60015820CV UV Tamper Proof Clear was developed to be printed on polycarbonate labels used in security applications. Labels are generally printed sub surface on transparent film. In the event of tampering or attempts to remove the label, labels printed with this clear will be destroyed.

The 3400 Series UV Nameplate ink is recommended to use for graphics printing. The 3400 Series with the addition of 5% by weight NB80 Adhesion Promoter may be printed over HP Indigo digital offset prints. Refer to the 3400 Series Technical Data Sheet for processing information.

Possible label constructions are the following:

- Tamper Proof Clear, 3400 inks, laminating adhesive
- 3400 inks, Tamper Proof Clear, 3400 inks, laminating adhesive
- HP Indigo digital offset print, Tamper Proof Clear, 3400 white with 5% NB80 Adhesion Promoter as background, laminating adhesive

The printer is responsible for testing print and ink combinations for satisfactory performance in the end use environment for a particular label.

**SUBSTRATES** Polycarbonate

## 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.*

**MESH** 305 – 380 threads per inch (120 – 150 threads per cm) monofilament polyester mesh for most applications

**COVERAGE** 2000 – 3500 square feet per gallon, depending on mesh used

**STENCIL** UV ink compatible direct emulsions and capillary films

**SQUEEGEE** 70-80 durometer polyurethane squeegee

**PRINTING** The 60015820CV Tamper Proof Clear is formulated to be press ready. Thoroughly mix the ink prior to printing.  
 RE306 Reducer may be added if the ink needs to be thinned; add up to 10% by weight.  
 Maintain ink temperature at 65°-90°F (18°-32°C) for optimum print and cure performance.  
 Pretest to determine optimum printing performance for a particular set of ink, substrate, screen, press, and curing variables/conditions.  
 The ink can be affected by stray UV light. Be aware of skylights, windows and overhead lights curing the ink in the screen. Keep containers covered. Leaving a container uncovered may result in the ink's surface forming a "skin," caused by reaction with room lighting or other stray lights. Light filters are recommended.

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### CURE PARAMETERS

The 60015820CV UV Tamper Proof Clear cures when exposed to a medium pressure mercury vapor lamp set at 200 watts per inch (80 W/cm) with energy output of >150 millijoules (mJ) and > 600 milliwatts (mW) per square centimeter.

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

A thoroughly cured ink film must be dry to touch (allow to cool) and not tacky, immediately out of the curing unit.

### CLEAN UP

Screen Wash (Prior to Reclaim): Use IMS201 Premium Graphic Screen Wash or IMS207C Graphic Recirculating Wash.

Press Wash (On Press): Use IMS301 Premium Graphics Press Wash.

### STORAGE

Store tightly covered at temperatures between 65°-90°F (18°-32°C). Ink taken from the press should not be returned to the original container; store separately to avoid contaminating unused ink.

### INK HANDLING

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

The 60015820CV Tamper Proof Clear is a one-part, 100% solids UV-curable screen printing ink, which does not contain N-vinyl-2-pyrrolidone (trade name V-Pyrol®).

## PRODUCT OFFERING

### PACKAGING

The 60015820CV UV Tamper Proof Clear is available in one-gallon containers. Cleaners are available in 1-gallon, 5-gallon, and 55-gallon containers.

Stock Number		Stock Number	Cleaners
60015820CV	UV Tamper Proof Clear	IMS201	Premium Graphic Screen Wash
RE306	Reducer (liters and gallons)	IMS207C	Graphic Recirculating Wash
		IMS301	Premium Graphic Press Wash

*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 screen 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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