

690411PS Hi Gloss Anti-Graffiti Clear UV Screen Ink is designed to be used as an overprint clear to allow graffiti to be removed from the surface and to protect the underlying graphics from cleaners. This product is resistant to cleaners and solvents to allow for easy removal of graffiti. 690411PS Anti-Graffiti Clear is designed to be compatible over several inks; test for adhesion and printability over inks before use. Properly cured, this clear will be resistant to most common cleaning fluids; test for resistance properties prior to full scale production.

**SUBSTRATES** Pressure sensitive vinyl, coated papers, polycarbonate, static cling vinyl

### 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** 305-355 tpi (120-140 tpcm) monofilament polyester mesh is recommended for most applications

**STENCIL** Solvent resistant, UV ink compatible direct emulsions and capillary films

**SQUEEGEE** 70-80 durometer polyurethane squeegee

**PRINTING** Ink maintains optimum print and cure performance when the ink temperature is 65°-90°F (18°-32°C). Temperatures below 65°F (18°C) increase the ink viscosity, impairing flow and adhesion properties. Elevated temperatures lower the ink viscosity and film thickness.

**INTERPRINTABLE GRAPHIC INKS** The following ink series can be used with 690411PS Anti-Graffiti Clear on their appropriate substrates referenced above: PowerPrint® 1600 UV Ink Series, PowerPrint® Banner 1900 UV Ink Series, 3200 UV Ink Series, 3600 UV Ink Series and 3900 UV Ink Series. Shop conditions vary; pretest the graphic ink and 690411PS Anti-Graffiti combination to determine optimum performance characteristics for a particular set of substrate, screen, press, and curing conditions.

**REDUCER** RE307 UV Reducer may be added up to 10% by weight. It is recommended that the ink be thoroughly mixed and acclimated to 65°-90°F (18°-32°C) environment prior to printing.

**CURE PARAMETERS** 690411PS Anti-Graffiti Clear cures when exposed to a medium pressure mercury vapor lamp set at 200 watts per inch with millijoules (mJ) and milliwatts (mW) of:

90-110 mJ/cm<sup>2</sup> @ 600+ mW/cm<sup>2</sup>

This guideline is intended only as a starting point for determining cure parameters, which must be determined under actual production conditions.

**PROCESSING** *Finishing:* Finishing requirements are dependent on the combination of the underprint ink and 690411PS Anti-Graffiti Clear. All finishing processes should be qualified prior to full scale print production, especially with respect to flexibility.

**STORAGE** The ink is reactive to light and temperature. Store tightly covered at temperatures between 60°-90°F (15°-32°C). Ink taken from the press should not be returned to the original container; store separately to avoid contaminating unused ink.

**CLEANING  
PRINTED  
SURFACE**

The surface can be cleaned with 668550KI Graffiti Remover. Any graffiti remover products should be pre-qualified prior to full scale print production.

**WEATHERING /  
OUTDOOR  
DURABILITY**

When properly cured, 690411PS Anti-Graffiti UV Screen Clear is formulated to provide up to 1 year outdoor durability when mounted vertically in the Central U.S.A.

Outdoor durability cannot be specified exactly. Slight loss of gloss should be expected.

Variables affecting a printed part's durability include:

- Ink film thickness and degree of curing
- Substrate type and age
- Mounting angle or directional orientation
- Geographical location
- Air pollution
- Exposure to excessive abrasion (for example, brush car washes)

## GENERAL INFORMATION

**INK HANDLING**

Direct contact of UV inks with the skin is the primary route of exposure and irritation. Therefore, it is recommended that all personnel handling these products 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). Proceed to wash and rinse the affected area with soap and water. Consult the 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 of ink surface – the ink will be smooth and slick.
2. Thumb twist – the ink surface will not mar or smudge.
3. Scratch surface – the ink will resist scratching.
4. Cross hatch tape test – use a cross hatch tool or a sharp knife to cut through ink film only; then apply 3M #600 clear tape on cut area, rub down, wait for 1 minute and rip off at a 180 degree angle. Ink should only come off in actual cut areas.

**PACKAGING**

690411PS Anti-Graffiti Clear is available in gallon containers.  
Reducer and Remover are available in gallon containers

Stock Number	Reducer	Stock Number	Remover
RE307	UV Reducer	668550KI	Graffiti Remover



# 690411PS HI GLOSS ANTI-GRAFFITI UV SCREEN CLEAR

## TECHNICAL DATA SHEET

*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.

Nazdar Worldwide Headquarters  
8501 Hedge Lane Terrace, Shawnee, KS 66227-3290 USA  
Toll Free: 866.340.3579 or Tel: 913.422.1888 Fax: 913.422.2296  
e-mail: [custserv@nazdar.com](mailto:custserv@nazdar.com)

Nazdar Limited  
Barton Road, Heaton Mersey, Stockport, England SK4 3EG  
Tel: + (44) 0.161.442.2111 Fax: + (44) 0.161.442.2001  
e-mail: [technicalservicesuk@nazdar.com](mailto:technicalservicesuk@nazdar.com)

<http://www.nazdar.com>