

Polymeric's abrasion-resistant, clear coatings are specifically formulated as a protective finish for interior decorative trim as well as electronic instrument panels. These clears offer unique film properties to overprint U.V. and conventional ink systems and provide a finish ranging from high gloss, water white, to velvet or highly textured satin.

The over-printed graphic will have a durable finish with outstanding mar, abrasion and chemical resistance. Other decorative prints may be screened directly onto this product with excellent adhesion characteristics. These clear coatings have tremendous thermal stability not commonly found among U.V. coatings.

- Standard gloss levels are 6% using a 60 degree angle measurement.
- Adheres well to polycarbonate, acrylic, PVC, ABS, PETG and most other rigid plastics

### Mixing

Clear coats are supplied at screen print viscosity and can be used directly from the container. Thinning is not recommended. For spray applications dilute with Isopropanol to proper viscosity. When roller coating, reduce with Xylol. Prior to cure, flash off the solvents with infra-red lamps.

### Mesh

390 to 420 plain weave (150-165 cm) for gloss hard coats. 305 plain weave (120 cm) for textured satins.

### Squeegee

Sharp 60 to 80 durometer polyurethane blade.

### Cure Parameters

1-300 watt per inch medium pressure mercury vapor lamps prior to cure, a finer texture and lower gloss may be achieved by subjecting the printed surface to radiant heat of approximately 150 to 180 degrees Fahrenheit for 5 to 10 seconds. This time may vary depending on individual manufacturing techniques.

### Belt Speed

40 (12 m) feet per minute

### Product Resistance

The following test results are only a few of the stringent requirements that these clear coats must pass as part of our on-going quality control process.

Water	300 hours @ 105° F
Humidity	200 hours @ 150° F
Heat	200 hours @ 150° F
Taber Abrasion	300 cycles, 500 gram load CS10 wheel

### Chemical Immersion

- Windshield Washer Fluid
- Pledge
- Multi-purpose Cleaner
- Spic & Span
- WD-40
- Oven Cleaner
- Armor All
- Silicone Fluid
- Vinyl Cleaner
- Various Soap Solutions
- MEK & IPA Spot Test (not immersion tested)
- Turtle Wax
- Anti-Freeze

All chemical tests finalized after 24 hours with no discoloration or adhesion failure.



# Hardcoat Clears

UV Curable Screen Print and Roller Coat Inks

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**Available as:**

#1814 Gloss Hard Coat Clear  
#1815 Satin Hard Coat Clear  
#1945 Hard Coat Satin Clear  
#2278 Hard Coat Texture Clear  
#4506 Hard Coat Matte Clear  
#4693 Hard Coat Texture Clear

**Similar to:**

GE 8A13F  
GE 8A13  
GE 8B35  
GE 8A35

**Storage**

Care should be taken to store ink in tightly closed containers located in a cool (60-80°F/15-27°C) dark place. With suitable conditions, unopened ink is expected to have a shelf life of approximately twelve (12) months from date of manufacture, six (6) months for white inks.

**Precautions**

Read the safety data sheet prior to processing. It contains instructions for precautions to be taken when handling inks. If ink comes in contact with skin wipe off with a clean, dry cloth (do not use solvent). Wash and rinse the affected areas with soap and water

**A. Warranty Liability Limited to Purchase and Installation Costs**

Notwithstanding anything provided herein or any other written material to the contrary, Polymeric only warrants the purchase price and costs of installation. Polymeric US shall have no liability or obligation to any user, buyer, purchaser, distributor or other person or entity for any special, direct, indirect, incidental or consequential damages, however caused, including without limitation, personal liability, loss of business, loss of profit, or other damage, whether or not buyer shall have informed Polymeric US of the possibility or likelihood of any such damages.

**B. Limitation of Implied Warranty and Fitness for a Particular Purpose**

Polymeric's warranty is given in lieu of all other warranties, express or implied, including but not limited to an implied warranty of fitness for a particular purpose, an implied warranty of merchantability, and any other implied warranty arising out of a course of dealing, performance, customer usage or trade.

**C. A Pretest Prior to Production is Recommended to Ensure Proper Suitability for the Intended Application.**