

**PRODUCT DESCRIPTION:**

PERMACLEAR UV® is a radiation-curable clear coating for plastic sheet and molded articles possessing superior resistance to abrasion and UV degradation. Molded articles and sheet stock made of polycarbonate and many polyacrylates can be coated using various means of application and cured with standard UV curing equipment.

**ADVANTAGES:**

- Cures in seconds
- Offers stability to UV degradation
- Exhibits good abrasion resistance
- Exceeds compliance with EPA solvent emissions and regulations
- Demonstrates superb adhesion to polycarbonate
- Cures without the use of nitrogen
- Can be reclaimed and recycled with proper equipment
- Approved for
  - Daimler Chrysler MS-PP5-5
  - Ford ESB-M80J2-A
  - Ford WSS-M80J6-A (at 1.0-1.4 mils)
  - General Motors 9984271
  - Intent of Federal Specification FMVSS-108
  - European ECE - #8 & #20 - ANNEXES 6
  - IFG MG 118-E
  - SAE J576
- Substrates: GE LEXAN - LS2-111  
BAYER MAKROLON - AL-2647-1068

**CHARACTERISTICS:**

Gloss..... Full	Theoretical Volume Solids .....>98%
Clarity ..... Complete	Viscosity (Brookfield) ..... 15-35 cps
Weight/Gallon ..... 9.80	Volatile Solvent Content .....<0.25 lb/gal

**APPLICATION:**

1. To be used as supplied. May be applied by various methods including roll coater, spray, dip and flow.
2. Optimum film thickness is 0.8-1.1 mil. Thicknesses of greater than 1.5 mils are not recommended.

**STORAGE:**

- Inside dry areas less than 80°F and greater than 50°F.
- Class 3A Combustible (Flash Point - 180°F)

**CURE:**

Within 45 seconds after application at up to 15 fpm with 300 watt/in lamp in presence of air for flat stock. Faster line speeds are possible with multiple lamps and or higher intensity (600 watt/in). Part distance depends on line speed, part geometry and lamp power using a D, then H Fusion lamp. Part geometry determines ultimate line speed. Faster cures are possible with nitrogen purge.

**PERFORMANCE:**

UV Resistance.....> 4000 hours
QUV - 8 hours UV @ 70°C,
4 hours 100% humidity @ 50°C
UVA 340 lamps @ 50 cycles
Xenon arc.....>3000 hours
EMMAQUA-NTW.....>1200 MJ/m2
Adhesion to polycarbonates and polyacrylates.

**SAFETY PRECAUTIONS:**

Product contains materials which may sensitize certain individuals.  
Proper eye protection must be worn at all times. Use of impervious gloves (such as nitrile) is essential.

**PREVENT SKIN CONTACT!**

In case of skin contact, immediate washing of affected areas with soap and water and removal of contaminated clothing is essential.

In spray application, where overspray is not controlled, full-face shields and air supplied respirators are recommended to prevent inhalation exposure. Where air supplied respirators are not available, a chemical cartridge particulate combination respirator recommended by the manufacturer for protection against atomized organic liquids and spray paints should be used. Prevent skin and clothing contact with spray mist.

Note: The information, ratings and opinions stated above pertain to the material currently offered and represent the results of tests believed to be reliable. However, due to variations in customer handling and methods of application, which are not known, or under our control, the Sherwin-Williams Company cannot make any warranties or guarantees as to the end results.

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