

UV PRO 310

PRODUCT TYPE

UV PRO 310 is a 100% solids, Ultraviolet-Light curable Hardcoat formulated to provide maximum abrasion and chemical resistance on rigid polycarbonate and other plastics.

PROPERTIES

- UV Curable
- Adhesion to a variety of plastics types including polycarbonate
- Primerless

SAFETY AND EXPOSURE

All users must read and understand the Safety Data Sheet prior to using this product.

LIQUID PROPERTIES at 25°C

PROPERTY	RANGE
Viscosity	200 – 300 centipoise (cP)
Specific Gravity	1.01 – 1.03
Solids, % by weight	100
Compatible Solvents	Alcohols (butanol)
Maximum Dilution	50%

CURED COATING CHARACTERISTICS

Polycarbonate substrate, 6.0 microns

PROPERTY	RANGE
Light Transmittance	≥ 88% (polycarbonate); ≥ 98% (glass)
Haze	< 1.0%
Adhesion	100% (5B)
Thickness, microns	6 – 14 (8)
Chemical Resistance	
Pass	Alcohols (ethanol/isopropanol), Esters (ethyl acetate), Ketones (acetone, 2-heptanone;2-butanone), typical household cleaners, aliphatic/fuel solvents (diesel/gasoline/heptane/cyclohexane), Dilute alkali and acids
Fail	Dichloromethane, Concentrated acids and alkali

WARRANTY LIMITATIONS

The physical and performance properties cited herein represent typical values for UV PRO 310 Coating, and are not meant as exact specifications. Customers must conduct their own validation testing to determine the appropriate use of this product for any purpose. This information is not to be considered a warranty or license to infringe upon any patented process or product; no liability for infringement arising out of such a use is assumed.

DELIVERY OPTIONS

The UV PRO 310 Coating liquid is available for shipment within two weeks of order confirmation, and is available in quart, gallon, and five-gallon pail containers. Contact Exxene to select the best payment option and the optimum shipping method according to your preference and region. All charges, duties, and fees associated with the shipment and its contents are the responsibility of the customer.

APPLICATION PARAMETERS

PROPERTY	RANGE
Application Methods Dip Spray Flow Coat	1 – 3.0 mm /second withdrawal rate 20 – 45 psi HVLP; fine tip As appropriate to flow system
Environment Temperature / Humidity	16 – 30°C / 20 – 65 % RH
Air quality	Laminar, top-down flow < 5 cfm Particle count as appropriate (≤ Class 10,000)
Coating Temperature	Within 5° of Ambient temperature
Coating Filtration	Polyethylene or polypropylene; nominal media rated at 0.5 to 1.0 microns as a pre-filter; absolute media rated at 5.0 to 10.0 microns. <i>Filter all coating before use.</i>
Cure Conditions	< 2 seconds using Medium pressure Mercury vapor lamp

EQUIPMENT PREPARATION

Compatible Materials: All equipment surfaces must be constructed of stainless steel, polyethylene, polypropylene or similar, chemical resistance substances. Mild steel, brass, copper, and polyvinyl chloride (PVC) or plasticizer-containing materials cannot be allowed to contact the coating liquid. Solvents other than those used to dilute the coating liquid are not allowed to contact the coating liquid.

Cleaning: All coating equipment must be thoroughly cleaned with a compatible solvent to remove all traces of other coatings, solvents, or old batches of the same product. After all residues have been removed from the equipment, multiple rinses of butanol followed by thorough drying are used to prepare the system for the introduction of filtered UV PRO 310 Coating liquid.

STORAGE UV PRO 310 liquid is stored at room temperature, or at refrigerated temperatures above 5 °C. Do not freeze. When stored in the original, sealed container, the liquid should be used within six months of the production date.

SUPPORT Contact Us via telephone at +1(361)991-8391, email Info@Exxene.com, or fax to +1(361)991-9057. We are located at 5939 Holly Road, Corpus Christi, TX 78414.