

PRODUCT TYPE

S-28-46 is a 1.44 index Solvent Based Hardcoat that provides a rigid, abrasionresistant surface on acrylic substrates.

PROPERTIES

- Resistant to abrasion and chemicals
- Transparent, high-gloss finish
- Thermal Curing
- Primerless

SAFETY AND EXPOSURE

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



S-28-46 Hardcoat

LIQUID PROPERTIES at 25°C

PROPERTY	RANGE
Viscosity	5 – 15 centipoise (cP)
Specific Gravity	0.92 to 0.93
Solids, % by weight	19 – 21
рН	Slightly acidic
Compatible Solvents	Glycol Ether PM (2-methoxypropanol)
Maximum Dilution	80% Coating : 20% Solvent

CURED COATING CHARACTERISTICS

Polymethylmethacrylate (acrylic)substrate, 2.2 microns

PROPERTY	RANGE
Light Transmittance	≥ 96% (polycarbonate); ≥ 99% (glass)
Haze	< 1.0%
Adhesion	100% (5B)
Thickness, microns	2.0 – 4.5 (2.2)
Chemical Resistance Pass	Alcohols (ethanol/isopropanol), aliphatic (diesel/gasoline/heptane/cyclohexane), Esters (ethyl acetate), Ketones (acetone, 2-heptanone;2-butanone), Dilute alkali, Concentrated/Dilute acids (except hydrofluoric)
Fail	Concentrated alkali, Hydrofluoric Acid, Dichloromethane

WARRANTY LIMITATIONS

The physical and performance properties cited herein represent typical values for S-28-46 Hardcoat, 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 S-28-46 Hardcoat solution is available for shipment within two weeks of order confirmation, and is available in quart, gallon, five-gallon pail, and 55gallon drum 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 Method	
Dip	1.5 – 3.5 mm /second withdrawal rate
Spray	20 – 45 psi HVLP; fine tip
Flow Coat	As appropriate to flow system
Environment	
Temperature/Humidity Dew point	$16-27^{\circ}\text{C}\ /\ 20-45\ \%\ \text{RH}$ Dew point must be at least 15° lower than room temperature.
Air quality	Laminar, top-down flow < 5 cfm Particle count as appropriate (≤ Class 10,000)
Coating Temperature	Within 3° 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 before every use</i> .
Cure Conditions	1 – 2 hours at 60°C 30 – 90 minutes at 90°C

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 solution.

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 Glycol Ether PM are used to prepare the system for the introduction of filtered S-28-46 Hardcoat solution. Dried residue may be removed with an aqueous 25 – 40% solution of sodium or potassium hydroxide.

STORAGE S-28-46 solution is stored at room temperature, or at refrigerated temperatures. When stored in the original, sealed container, the solution should be used within ten 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.