

Gelest HardSilTM AP

Silicone Resin Hard Coatings

Features: Provides clear silicone hard coat with excellent optical properties. HardSilTM AP series are curable polysilsesquioxane T-resins with excellent abrasion resistance.

Applications:

Optical Thermoplastics- provides effective scratch-resistant coatings with good weather resistance for polycarbonates and polyacrylates. Examples include glazing, windscreen, computer screen and ophthalmic applications.

Laminated Structures- hard, heat resistant impregnants for continuous exposures up to 360°C.

Capsular Description:

Thickness



Cure

_____ thermal

Hardness

high

Type solvent-borne 1-part

10/00

HardSil™ AP Abrasion Resistant Coating - Thermal Cure

Description

HardSilTM AP is a primerless phenyl modified silicone dispersed in methoxypropanol for continuous use at temperatures up to 360°C.

Film Properties

Color clear
Hardness, Rockwell R 120R
Tensile Strength 3500psi
Refractive Index 1.54-1.56

Solution Properties

Form liquid
Solids 20%
Flashpoint 35°C
Specific Gravity 0.95
Viscosity 3-5 cSt.

Shelf life: 12 months when stored below 25°C in sealed containers. Keep container sealed after dispensing product.

Standard Packaging

PP1-HSAP HardSilTM AP 100g/\$29.00 750g/\$150.00 10kg/commercial package

Cautions

Use in a well ventilated area. Flammable.

Avoid contact with skin and eyes.

Application Methods

Gelest HardSilTM AP is applied as a coating by spraying, dipping or brushing. Material is allowed to dry for 1 hour and then cured at 240°C for 20-30 minutes. Thinner films may be prepared by diluting with methoxypropanol. Cure can be accelerated by adding 0.5% zinc 2-ethylhexanoate.