

Gelest HardSilTM AM

Silicone Resin Hard Coatings

Features: Provides clear silicone hard coat with excellent optical properties. HardSilTM A 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

thin-thick

Cure

Hardness

high

Type solvent-borne 1-part

HardSilTM AM Abrasion Resistant Coating - Thermal Cure

HardSilTM AM is a primerless acrylated silicone nanocomposite dispersed in a mixture of alcohols including methanol, n-butanol and isopropanol. The nanocomposite structure imparts scratch resistance to a clear film structure.

Film Properties

Color clear

Abrasion Resistance,

Taber 500 cycles 500g CS10F

Solution Properties

Form solution Solids 19-21% 19°C Flashpoint Specific Gravity 0.91 Viscosity 5-15 cSt.

Mologi **Shelf life:** 3 months when stored below 5°C in sealed containers. Containers should be warmed to 15°C before opening to reduce condensation of water.

Standard Packaging

PP1-HSAM HardSil™ AM

100g/\$39.00 750g/\$210.00

10kg/commercial package

Cautions

Use in a well ventilated area. Flammable.

Avoid contact with skin and eyes.

Application Methods

Gelest HardSilTM AM is applied as a coating by spraying, dipping or brushing. After solvent evaporation, the system cures in 30-60 minutes at 125-140°C. As supplied, typical film deposition is 6-8 microns. Thinner films may be prepared by diluting with methoxypropanol or isopropanol.

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