

Ply-Guard IC

Technical Bulletin

Ply-Guard IC is a new generation thixotropic, single component acrylic elastomer co-polymer for use as heat insulating coating on exterior and interior surfaces. The material contains ceramic particles engineered to contain and dissipate temperatures.

Ply Guard IC, when applied on exterior roofs, will allow building interiors to maintain lower ambient temperatures. The cured film exhibits excellent flexibility, weathering and color stability.

Ply-Guard IC film provides toughness, good resistance to physical damage and chemical attack. The thixotropic build properties permit excellent uniformity of application even over heavily textured surfaces.

Ply-Guard IC may be used over urethane foam to provide an elastomeric protective barrier. It is also suitable over a variety of other substrates such as concrete, wood, and stucco where elastomeric properties are desired.

Ply-Guard IC provides excellent ultra-violet stability, impact resistance, and tensile strength with over 250% elongation. The high solids content and thixotropic properties allow application over a variety of surface conditions with smooth surfaces requiring 1-2 gallons per 100 square feet.

Ply-Guard IC when applied in two coats, will reduce the level of noise transfer due to the sound retention characteristics of the ceramic spheres, in addition to also reducing temperature transfer, both hot and cold, to the interior of the coated structures.

Product Data *(All readings taken at 25°C, unless noted)*

VOC Content (Lbs./gal.):	0.20
VOC Content (grams/Liter):	24
Flash Point:	> 200°F (> 93.3°C)
Type of Material:	Acrylic Co-Polymer
Color:	Off-White; Low Gloss
Volume Solids (%):	64
Theoretical Estimated Coverage (ft²/gal.):	1027 @ 1 mil DFT
Recommended Film Thickness (mils/coat):	15
Number of Coats:	1 or 2 (depending on service)
Method of Application:	Spray, Brush, or Roll
Thinner & Clean-Up Solvent:	Clean Water
Pot Life (Hours):	Indefinite (single component)
Drying Time:	3 Hours @ 75°F (24°C)
Shelf Life:	1 year in the original, unopened containers
Storage:	Store between 60–95°F (16–35°C)

Surface Preparation

Surface must be clean, cool, dry, and free of grease, scaling paint, special surface hardeners, curing agent or other contaminants. Protect nearby objects (including vehicles & plant life) from overspray, drips or spatters by covering with drop cloths or other appropriate material.

FOR PAINTED SURFACES: Remove chalk and old paint not tightly bonded to the surface. Apply test patch to the surface to check adhesion.

FOR CRACK REPAIR: Fill hairline cracks less than 1/64" wide by brushing Ply Guard IC into them prior to applying elastomeric coating to the entire area to be coated.

FOR NEW CONSTRUCTION, STUCCO, BRICK, OR CONCRETE: Allow new concrete, plaster, stucco and masonry to cure for a minimum of 30 days before application. Most surfaces will require power washing prior to coating by using high pressure type hydra-spray equipment (1500-2000 psi) in conjunction with detergents and cleaners. If caustics or other cleaners are used, surface must be thoroughly rinsed prior to proceeding.

FOR METAL AND WOOD: Prepare surface and apply suitable primer as recommended by the manufacturer. For metals, use a proper rust preventative primer. For wood, apply an oil based wood penetrating type primer.

FOR PREVIOUSLY COATED SURFACES: All previously coated surfaces must be thoroughly cleaned by using high pressure type hydra-spray equipment (1500-2000 psi) in conjunction with proper detergents and cleaners. If caustics or other cleaners are used, surface must be thoroughly rinsed prior to proceeding. Ensure that surface is free of all loose or scaling paint, chalk, oil, dust, dirt and grease. Surfaces must be clean, firm and dry.

APPLICATION LIMITATIONS: Do not apply when surface temperature is below 40°F (4.5°C) or when the weather could result in temperatures below 40°F before coating is completely dry. Do not apply when there is a threat of rain or when humidity is 85% or higher, as curing will be retarded. Do not apply to block or any masonry surface that is frozen or that has not completely thawed & dried and reached a surface temperature above 50°F (10°C). Do not apply directly over lightweight masonry surfaces. Allow fresh concrete at least 30 days to cure prior to applying the coating. Ply-Guard IC is not suitable for use on interior, below-grade surfaces.

**FOR ADDITIONAL APPLICATION & EQUIPMENT RECOMMENDATIONS,
PLEASE CONSULT YOUR POLYSET TECHNICAL REPRESENTATIVE.**

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