

IMPER-SOL™

PRODUCT CODE
F02467

PRODUCT DESCRIPTION

IMPER-SOL™ is a white, non-toxic, fire retardant roof coating formulated from water-based, pure acrylic, self-curing latex polymers. IMPER-SOL™, an elastomeric coating, also contains unique "bleed-blocking" polymers that make it very suitable for use over asphaltic surfaces.* It is designed for application by brush, roller or spray. Once cured, IMPER-SOL™ preserves asphaltic or modified bitumen surfaces and reduces under roof temperatures to create a more pleasant interior work environment that is less costly to maintain. IMPER-SOL™ is an approved product under CRRC®.

PRODUCT ADVANTAGES

IMPER-SOL™ contains substantial levels of UV-blocking pigments that keep solar heat out of the building envelope. A cool IMPER-SOL™ surface reflects the sun's ultraviolet rays, slows down roof aging, and extends the useful life of a roofing system.

Fire Retardant - IMPER-SOL™ contains a unique blend of ingredients that produce a superior, flame-retardant surface. Refer to UL and FM publications in order to determine how IMPER-SOL™ should be used with a specific roof system or assembly. IMPER-SOL™ contains no asbestos.

Reduces Roof Degradation - Solar heat accelerates roof system degradation. In addition, roofing materials contract and expand daily as they heat up during the day and cool at night. A roof coated with IMPER-SOL™ does not experience such large temperature fluctuations; therefore, the roofing system undergoes less fatigue. Its white, flexible finish reflects the sun's ultraviolet rays and reduces their damaging effects.

Energy Savings - Typical dark colored Built-Up Roofs can absorb over 70% of the solar energy that reaches them, creating temperatures over 180°F (82.2°C). Studies confirm that IMPER-SOL™ can reduce roof temperatures by 50° to 80°F (10° to 26.7°C) and save significant amounts of cooling energy during the summer months.

Environmentally Friendly - IMPER-SOL™ eliminates flammability and toxicity hazards associated with solvent based coatings. There are no irritating or unpleasant odors with IMPER-SOL™.

Reduces Roof Life-Cycle Costs - Over time, heat and UV light degrade the chemical structure of a roofing membrane, which then causes chalking, cracking,

shrinking, loss of flexibility, and surface erosion. High-quality acrylic polymers give IMPER-SOL™ added strength, flexibility, adhesion, and color-retention to aged roofing systems.

APPLICATION

The existing roof surface must be sound and free of defects such as blisters, splits, fishmouths, etc. All defects must be repaired with a suitable patching material. All fresh applications of mastics, coatings or asphalt adhesives require a minimum of 30 days to cure prior to application of IMPER-SOL™. Loose materials, standing water, debris, oil, and other contaminants may prevent full adhesion of the coating and must be removed. IMPER-SOL™ is designed for application by brush, roller or spray. The coating is ready for immediate use; however, it should be stirred, not thinned, prior to application.

IMPER-SOL™ should be spray, brush or roller applied at a rate of 1½ gallons per 100 ft² (0.41-.61 l/m²) per coat depending on the substrate. For best results, apply a two-coat application in a crosshatch manner.

PRECAUTIONS

- Do not apply when the ambient temperature is below 50°F (10°C) or above 95°F (35°C).
- Do not use on roof areas subject to ponding water.
- Do not apply when rain is expected within 12 hours.
- Do not allow product to freeze.
- Store material in dry protected areas and on clean raised platforms.
- Shelf life is one year in an unopened container.

All safety and good roofing practices should be followed while applying this product. IMPER-SOL™ should be installed by a professional roofing contractor having previous experience in the application methods described. Dispose of unused portions and empty containers in accordance to local regulations.

*APP polymer modified bitumen; smooth surface membranes are susceptible to exuding light oils, which can cause the coating to turn brown or discolor after application. It is highly recommended a period of 30 to 45 days lapse prior to applying IMPER-SOL™ to smooth APP polymer modified bitumen membranes.

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Technical Data	IMPER-SOL™
Color	White
Weathering (ASTM D 4798)	No deterioration over 1000 hours per ASTM G 26 test requirements
Non-Volatile (ASTM D 1644)	66% min
Density @ 77°F (25°C) (ASTM D 1475)	12 lb./gal (1.43g/cm ³)
Elongation (ASTM D 2370)	100% minimum
Tensile Strength (ASTM D 2370)	200 psi minimum
Toxicity	Non-toxic; Water based
Shelf Life	1 yr. in an unopened container
Coverage	1-1.5 gal./100 ft. ² (0.41-0.61 l/m ²) per coat, 2-coat application required
Packaging	5 gallon pail (18.9 l) 55 gallon drum (208.2 l)

Eco-Facts	IMPER-SOL™
VOC	<50 g/l
	Initial
Emittance	.84
Reflectance	.91
SRI	106

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Tests verified by independent laboratories. Actual roof performance specifications will vary depending on test speed and temperature. Data reflects samples randomly collected. A ± 10% variation may be experienced. The above data supersedes all previously published information. Consult your local BITEC Representative or BITEC Corporate Office for more information.

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