Solarseal

Water-based Acrylic Protective Roof Coating

FEATURES

Excellent weathering performance
Low odour
Versatile

BENEFITS

- Delivers excellent weathering and dirt pick-up resistance
- Perfect for odor-sensitive accounts
- Can be applied to various roofing substrates

DESCRIPTION

Solarseal is designed for protection of various roof surfaces. Solarseal provides durability, low temperature flexibility and excellent resistance to weathering and dirt pick-up.

BASIC USES

Solarseal is designed for direct-to-metal application. It can be used for exterior applications on aluminium, steel and galvanised steel, in addition to Tremco's acrylic coatings line, which includes Solargard 6083.

PACKAGING

5 Litre and 20 Litre

COLOUR

White, standard and custom colours

GRADE

Brush, Roller, Spray

STORAGE

12 Months shelf life in unopened containers, when properly stored.

Recommended storage conditions are indoors in a ventilated, dry area removed from heat, open flame, ignition sources and direct sunlight. Storage temperatures should range from 15°C to 21°C and must not drop below 0°C or exceed 43°C.

On jobsite, materials should remain on the pallet until use and be stored in a shaded, ventilated area. Materials should be covered with a light-coloured reflective tarp for protection against the elements. Allow for adequate air flow inside the pallets.

Shelf life could be affected if the product is not stored properly.

APPLICATION

Preparation: All surfaces must be clean and free from dirt, grease, oil, loose granule, loose paint, rust, excess chalk and other foreign matter which could prevent proper adhesion. This is best accomplished using a high pressure wash of at least 150 bar. A surface cleaner shall be used to remove all grease or oily deposits to achieve a water break-free surface.

Smooth, hard or glossy finishes should be roughened by sanding to create a surface profile. Allow the surface to dry completely.

Roof Sheeting: ISO 8501 St2 for maximum protection.
If metal panel finish is Kynar 500, please contact the Technical Department for surface preparation recommendations.

Previously Painted Surfaces: Lightly sand or abrade to roughen and de-gloss the surface. Existing paint must attain a minimum 3A rating in accordance with ASTM D3359 "X-Scribe" adhesion test.

Mixing: Use a heavy-duty corded power drill with Jiffy Mixer mixing blade. Mix until product is consistent in appearance and viscosity. Do not thin.

Airless Spray Application:

Component:	1
Pump Ratio	30:1
Pressure:	2500 psi
Tip Size:	0.015 to 0.019
Filters:	60 Mesh filter
Hose Type:	High Pressure ¼" Hose
Conventional Spray:	Self-ejecting pressure pot, 0.8 to 2mm nozzle tip ¼" Hose (10 to 12mm) high pressure, 2500 psi

COVERAGE RATE

6 to 8m²/litre at 50 to 75µm per coat. Solarseal is applied in 2 coats.

- Coverage rates are listed at minimum recommended rates. The application surface can affect the necessary coverage rate.
- Additional surface area must be accounted for on applications over corrugated or standing seam metal substrates. Coverage may require an additional 15 to 25% depending on profile.

THEORETICAL SOLIDS CONTENT

By volume: 40% ± 1%

TEMPERATURE RECOMMENDATIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	10°C	10°C	10°C	0%
Maximum	41°C	54°C	43°C	85%

- Minimum temperatures must be rising following application.
- Do not apply when dew point is within 3°C of ambient temperatures.
- Do not apply when precipitation, fog or dew is imminent prior to cure of the product.
- Application temperature shall be above 10°C.
- Protect from freezing.

CURE TIME

Surface Temp	Dry to Handle	Dry to Topcoat	Maximum Recoat
10°C	3 Hours	3 Hours	7 Days
24°C	2 Hours	2 Hours	7 Days
32°C	1 Hour	1 Hour	7 Days

These times are based on a 50µm dry film thickness. Higher film thicknesses, insufficient ventilation or cooler temperatures will require longer cure times. The acrylic film forming process may require several weeks at 24°C with proper ventilation to develop adhesion and water resistance. High humidity, high film thickness, insufficient ventilation or cooler temperatures will lengthen the "Dry to Handle" and "Dry to Topcoat" times due to slower water evaporation rate. Water-borne Acrylics are sensitive to moisture during early cure and are susceptible to handling damage.

CLEAN UP

Soap and water immediately after use.

LIMITATIONS

- Not intended for use in areas where water continuously ponds.
- Do not apply direct to Kynar metal finishes.

PHYSICAL PERFORMANCE CHARACTERISTICS

Property	Typical Value	Test Method
Density (g/ml)	1.324	-
Viscosity	70-80 KU	-
Solids by Weight	55% ± 1%	-
Crosshatch Adhesion	5B	ASTM D 3359-09
Recommended Dry Film Thickness	50-75 micron per coat	-
Wet Film to Achieve DFT	125-190 micron per coat	

MAINTENANCE

Your local Tremco Roofing sales representative can provide you with effective maintenance procedures which may vary, depending upon specific conditions. Periodic inspections, early repairs and preventative maintenance are all part of a sound roof program.

PRECAUTIONS

Users must read container labels and safety data sheets for health and safety precautions prior to use.

TECHNICAL SUPPORT

Your local Tremco Roofing sales representative, working with the Technical Service Staff, can help analyse conditions and needs to develop recommendations for special applications.

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