

Solargard® 6083

Premium Acrylic Elastomeric Roof Coating System

FEATURES

Excellent weathering performance
Highly reflective (white)
Low odor
Versatile
Colours

BENEFITS

- Delivers excellent weathering and dirt pick-up resistance
- Due to the high solar reflective index, it reduces rooftop temperatures, resulting in less stress and potential energy savings
- Perfect for odor-sensitive accounts
- Can be applied to various roofing substrates
- Can be custom tinted to a range of colours

DESCRIPTION

Solargard 6083 is an acrylic elastomeric roof coating formulated to meet and/or exceed the standards as established in ASTM D6083 – Standard Specification for Liquid Applied Acrylic Coating used in roofing.

BASIC USES

Solargard 6083 weatherproofs a variety of roofing substrates including metal, weathered single ply membranes and fibre cement panels.

PACKAGING

18.9 litre

COLOUR

White, Light Grey and select pastel colours

GRADE

Brush, Roller, Spray

STORAGE

12 Months shelf life in unopened containers, when properly stored. **DO NOT FREEZE!**

Recommended storage is 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 the 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: Surface must be clean, dry, in sound condition and free of dirt, debris and contaminants. Rust must be abraded until it no longer exhibits flaking or chalking. Wet insulation must be identified and replaced. Deficient areas of existing system must be repaired. All repairs should be made with like materials matching the existing components and allowed to properly cure prior to application of liquid-applied products.

If surface was previously coated, please contact the Tremco Roofing Technical Department for surface preparation recommendations.

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.

Priming: Primers may be needed on specific substrates / surfaces prior to application. See the Roof Substrates / Surfaces Application Chart on the next page for recommended primers. Review the recommended primer product data sheet for specific product and application information.

ROOF SUBSTRATES / SURFACES APPLICATION CHART

| Product Type | Product Name | Weathered Metal / Galvanised / Chromadeck | New / Galvanised | Fibre Cement |
|-------------------|-----------------------|---|--|---|
| Primer | See chart | Solarprime AC 7.4m ² /litre at 132µm WFT (50µm DFT) | Solarmastic 9m ² /litre at 108µm WFT (100µm DFT) | Pro-Struct 689 6 to 8m ² /litre |
| Detailing Product | Solargard Seam Sealer | 3 Course 0.7 to 1.2 lm per 850ml cartridge at 200mm wide | 3 Course 0.7 to 1.2 lm per 850ml cartridge at 200mm wide | 3 Course 0.7 to 1.2 lm per 850ml cartridge at 200mm wide |
| Reinforcement | Pro-Struct 599 | 100 x 1m | 100 x 1m | 100 x 1m |
| Base Coat | Solargard 6083 | 2.6m ² /litre at 400µm WFT (290µm DFT) | 2.6m ² /litre at 400µm WFT (290µm DFT) | 2.6m ² /litre at 400µm WFT (290µm DFT) |
| Top Coat | Solargard 6083 | 2.6m ² /litre at 400µm WFT (290µm DFT) | 2.6m ² /litre at 400µm WFT (290µm DFT) | 2.6m ² /litre at 400µm WFT (290µm DFT) |

NOTE: For application to metal fluoropolymers, SPUF, torch-on membranes or single ply, consult your local Tremco Roofing Sales Representative. Solargard 6083 is not recommended for direct application to the following substrates: concrete, cementitious screeds or masonry walls

COVERAGE RATES

Coverage rates are 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.

Optional non-skid coat with embedded and backrolled aggregate:

- Additional layer of topcoat: apply at 400 to 600µm
- Approved aggregates: Stonhard 6222 – Coverage: 1.0 to 1.5kg/m²

| | |
|---------------------|--------|
| Min Ambient: | 10°C |
| Max Ambient: | 43.3°C |
| Min Surface: | 10°C |
| Max Surface: | 54.4°C |

- Minimum temperatures must be rising following applications. Do not apply when:
 - Dew point is within 3°C of ambient temperatures
 - Precipitation, fog or dew is imminent prior to cure of the product
 - Freezing temperatures are expected prior to cure of the product

| | |
|---------------------|--|
| Skin Time: | 21.1°C / 50% RH – 6 Hours |
| Recoat Time: | Do not traffic or recoat within 24 hours |

General Guidelines

| Component | Pressure | Tip Size | Flow Rate | Filters | Hose Type | WHIP | Product Temp |
|---------------|----------|-------------|---------------|---------|---------------|------------------|--------------|
| One-component | 1500 psi | .035 - .045 | 1.6 - 2.6 gpm | Remove | High Pressure | ¼" High Pressure | Ambient |

- Must use heavy-duty or industrial grade spray tips
- Properly clean and maintain spray equipment before, during and after use
- Equipment should be properly grounded during use

Soap and water

- Not recommended for use over the following:
 - **Roof Decks:** Cementitious wood fiber, metal, poured-in-place gypsum, structural lightweight or lightweight insulating concrete, and wood decks (including plywood, tongue-and-groove, etc.).
 - **Products / Systems:** Asphalt-based or coal tar gravel surfaced BUR systems, clay tile, expanded or extruded polystyrene insulation, shingles, silicone-based products and tar-based products.
- Not for use under continuous immersion or prolonged (longer than 48 hours) ponding water.
- Not recommended for areas of high pedestrian traffic.
- Consult Tremco Roofing sales representative for trafficable or walkway solutions.

TEMPERATURE RECOMMENDATIONS

CURE TIMES

SPRAY EQUIPMENT RECOMMENDATIONS

CLEAN UP

LIMITATIONS



www.stoncor.co.za
StonCor Africa
Tel: +27 11 254 5500
E-mail: stoncorsa@stoncor.com

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PHYSICAL PROPERTIES

| Property | Test Method | Typical Value |
|---|-------------|----------------------------------|
| Tensile Strength | ASTM D6083 | 1.87 MPa |
| Elongation | ASTM D6083 | 132% |
| Tear Strength | ASTM D6083 | 127N/m |
| Water Swell | ASTM D6083 | 14% |
| Permeance | ASTM D6083 | 45 ng |
| Fungi Resistance | ASTM D6083 | Pass |
| Low Temperature Flexibility, Post Accelerated Weathering | ASTM D6083 | Pass |
| Reflectance | ASTM C1549 | Initial: 0.85, 3 Yrs Aged - 0.81 |
| Emittance | ASTM C1371 | Initial: 0.88, 3 Yrs Aged - 0.90 |
| SRI | | Initial: 107.3, 3 Yrs Aged - 101 |
| Solids Content – Volume | ASTM D6083 | 73% |
| Solids Content – Weight | ASTM D6083 | 69% |
| VOC (White) | | 28 g/litre |

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 preventive maintenance are all part of a sound 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.



www.stoncor.co.za
StonCor Africa
Tel: +27 11 254 5500
E-mail: stoncorsa@stoncor.com

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