

SOLARGARD® 6083

SOLARGARD Base Coat
#112170005P – 5 Gal. Pails
#1121700053D – 53 Gal. Drums
SOLARGARD White Finish Coat
#112070005P – 5 Gal. Pails
#1120700053D – 53 Gal. Drums

Acrylic elastomeric roof coating

Description

SOLARGARD 6083 is for the waterproofing and weatherproofing of various roof surfaces. SOLARGARD 6083 provides durability, low temperature flexibility, and excellent resistance to weathering and dirt pick-up. SOLARGARD 6083 is available in white, standard, and custom colors. This elastomeric roof coating is formulated to meet and/or exceed the standards as established in ASTM D 6083.

Uses

SOLARGARD 6083 waterproofs and weatherproofs metal, weathered single ply membranes as well as smooth surface asphalt built-up and modified bitumen roofing substrates.

Advantages

SOLARGARD 6083 provides ease of application while meeting or exceeding all of the performance requirements of the ASTM D 6083 acrylic roof coating specification.

Limitations

Application temperature shall be above 50°F. Protect from freezing. Not intended for use in areas subject to vehicular traffic, ponding water, and over tar or silicone. Do not apply when rain is imminent. Do not use Base Coat as a Finish Coat.

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 2,000 psi. A

surface cleaner shall be used to remove all grease or oily deposits.

Waterproofing seams is to be accomplished by using SOLARGARD Seam Sealer or SOLARGARD Acrylic Sealer. Roof penetrations are to be flashed using SOLARGARD Seam Sealer or SOLARGARD Acrylic Sealer. Refer to appropriate application specification for further information.

Coverage

SOLARGARD 6083 is to be applied in two coats consisting of a Base Coat and White (or selected color) Finish Coat. The Base Coat is not to be used as a Finish Coat. The system will be applied as follows:

Metal: Bare galvanized metal does not require a primer if there is no rust present. Surface must be clean and dry. Steel surfaces must be primed, as does metal with rust or corrosion present.

If metal panel finish is Kynar 500 or the roof was previously coated, please contact the Technical Department for surface preparation recommendations.

If metal panel is not Kynar or previously coated, the surface must be cleaned of all rust as thoroughly as possible by wire brush, power tools, or power washed and primed with SOLARGARD Rust Primer WB. Prime and detail as needed per application specification.

After detailing and priming, coverage is 1 gal./100 sq. ft. Base Coat, 1 gal./100 sq. ft. Finish Coat, 16 wet mils per coat.

Over corrugated and irregular metal surfaces, allow for additional surface area by multiplying length x width by 1.15 minimum.

Weathered Single Ply: After detailing and priming with Single Ply Primer, apply 1 gal./100 sq. ft. Base Coat, 1 gal./100 sq. ft. Finish Coat, 16 wet mils per coat.

Built-Up/Modified Bitumen: After detailing and priming with WB Asphalt Primer, apply 1 1/2 gal./100 sq. ft. Base Coat, 1 1/2 gal./100 sq. ft. Finish Coat, 24 wet mils per coat.

The surface dictates the actual coverage. The amounts shown are intended as minimum application information.

Application

Refer to appropriate application specifications for additional information. SOLARGARD 6083 can be spray, roll, or brush applied. For optimum results, airless spray is recommended.

Tip Sizes: Good results are generally obtained @ 2000–3000 psi at spray tip.

TECHNICAL DATA

Weight per Gallon (ASTM D 1475)	12.18 lbs.
Specific Gravity (ASTM D 1475)	1.46
Solids by Weight (ASTM D 1644)	greater than 60%
Solids by Volume (ASTM D 2697)	greater than 50%
Elongation @ 73°F (ASTM D 2370)	+390%
Flexibility @ -15°F (ASTM D 522)	Passes 1/2 inch mandrel bend after 1000 h accelerated weathering
Tensile Strength @ 73°F (ASTM D 2370)	250 psi
Dry Time (ASTM D 1640)	6 hours to touch Min. 24 hours to recoat
Flashpoint (ASTM D 3278)	None
Clean Up	Water
VOC	< 50 g/l White
Solar Reflectance	0.85 Initial 0.81 Aged
Solar Reflectance Index (SRI)	107 Initial 101 Aged
Clean Up	Water



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SOLARGARD® 6083

Spray Equipment Recommendation

Pumps: Graco King 45:1, Graco Bulldog 30:1 or gas powered equivalents. Graco GH733, HydraMax 350 or GMax 7900 or other manufacturers' equivalents.

Hose/Pressure: 50 –300 length (depending on spray rig pressure). When using hoses longer than 100 use the next larger hose ID every 50 . Every 50 of hose will reduce the spray pressure of the rig by 10% at the gun tip. i.e. 300 hose – 3/4" (50/100) to 5/8" (50/100) to 1/2" (50/100') to 3/8" (50').

Gun: Graco Contractor Gun, Graco Contractor FTx gun, Graco Silver Plus or equivalent. (Tip extrusions or pole guns can be used.)

Tip Type: Heavy Duty RAC Switchtips (GHDXXX) Gray.

Fan Width (in)	.035	.037	.039	.041	.043	.045
10"–12"	535	537	539	541	543	545
12"–14"	635	637	639	641	643	645
14"–16"	735	737	739		743	745
16"–18"	835	837	839		843	
Flow Rate	1.60 gpm	1.80 gpm	1.98 gpm	2.17 gpm	2.37 gpm	2.58 gpm

Maintenance

It is recommended that the coating installation be checked on a regular schedule with additional inspections after the system has been exposed to severe weather conditions. Recoating or small area touch up can be made at any time by following recommended application procedures.

Technical Services

Technical advice or service on suitability of material for specific application and end-use requirements is available from the manufacturer. Refer to label and Material Safety Data Sheet (MSDS) for precautionary information.



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