

PRODUCT IDENTIFICATION

SOLARGARD® HY-BUILD

#1512-53 – 53 gallon drum

#1512-05 – 5 gallon pail

#1512-01 – 1 gallon cans

ELASTOMERIC ROOF AND WALL COATING

Description

SOLARGARD HY-BUILD is a water-based, acrylic, elastomeric roof and wall coating formulated to provide a tough, durable, flexible, breathable film protection of previously painted or unpainted masonry, metal or foam roofs and walls.

Uses

SOLARGARD HY-BUILD waterproofs masonry, metal and foam surfaces including vertical walls.

Advantages

SOLARGARD HY-BUILD's formulation resists the effects of water and weather making it an ideal coating for long-lasting waterproofing protection. In addition, SOLARGARD HY-BUILD contains fibers, which allow it to protect against abrasion and building movement. It will bridge small cracks.

TECHNICAL DATA

Weight per Gallon (ASTM D 1475) 11.0 ± 0.2 lbs.

Specific Gravity (ASTM D 1475) 1.32 ± 0.2

Solids by Weight (ASTM D- 1353) 63% ± 1%

Solids by Volume (ASTM D 5201) 52% ± 1%

Elongation @ 77°F (ASTM D 2370) 215% ± 25%

Flexibility @ -15°F (ASTM D 522) Passes 1/2 inch mandrel bend

Tensile Strength @ 77°F 375 ± 50 psi

Tear Resistance (ASTM D 522) 138 lbf/in

(ASTM D 2370)

Dry Time (ASTM D 1640) 1 hour to touch

Flashpoint (ASTM D 3278) None

Permeance Rating 12

Clean Up Soap and water

COVERAGE

Porosity, texture of surface, and specified dry-film thickness will dictate coverage. Coverage rates are as follows:

1 1/2 gal./100 sq. ft. 24 wet mils

2 gal./100 sq. ft. 32 wet mils

3 gal./100 sq. ft.* 48 wet mils

*(2 coats required; each coat 24 mils wet)

*NOTE: In special circumstances where two coats are required, SOLARGARD HY-BUILD BUFF BASE is recommended.

See SOLARGARD HY-BUILD specifications for additional information.

Limitations

Application temperature shall be above 50°F. Protect from freezing. Not intended for use in areas subject to vehicular traffic or where water continuously ponds. Do not apply when rain is imminent. Do not apply over silicone or coal tar.

Preparation

All surfaces are to be free of dirt, grease, oil, loose paint, loose rust, excess chalk, and other foreign matter which could prevent proper adhesion. This is best accomplished using a high-pressure power wash of at least 2,000 psi. A surface cleaner shall be used to remove all grease or oily deposits.

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

Application

Refer to application specifications for additional information.

Walls: Over porous concrete, brick, etc., surfaces where a prime coat is recommended use SOLARGARD MASONRY PRIMER. SOLARGARD HY-BUILD can be applied by brush, roller, or spray gun to specified coverage rates.

Refer to appropriate application specification for further information.



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SOLARGARD[®] HY-BUILD

Metal: Prime all rust using SOLARGARD METAL PRIMER. SOLARGARD HY-BUILD can be applied by brush, roller or spray gun to specified coverage rates.

Refer to appropriate application specification for further information.

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')

Tip Sizes:

Good results are generally obtained @ 2000-3000 psi at spray tip.

| Fan Width (in) | .039 | .041 | .043 | .045 | .047 | .049 |
|----------------|----------|----------|----------|----------|----------|----------|
| 10"-12" | 539 | 541 | 543 | 545 | 547 | 549 |
| 12"-14" | 639 | 641 | 643 | 645 | 647 | 649 |
| 14"-16" | 739 | 741 | 743 | | 747 | 749 |
| 16"-18" | 839 | 841 | 843 | | 847 | |
| Flow Rate | 1.60 gpm | 1.80 gpm | 1.98 gpm | 2.17 gpm | 2.37 gpm | 2.58 gpm |

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

For additional information, refer to appropriate application specification.

Maintenance

It is recommended that the coating application be checked on a regular schedule with additional inspections after the system has been exposed to severe 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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