

PRODUCT IDENTIFICATION

SOLARGARD® ULTRA

#1118700005 - 5 gal. pail
#1118700053 - 53 gal. drum

ELASTOMERIC ROOF COATING

Description

SOLARGARD ULTRA is a high solids, water-based, heavy bodied elastomeric coating utilizing nano technology and formulated with a proprietary acrylic latex polymer. The high film build reflective coating is VOC compliant and asbestos free.

Uses

SOLARGARD ULTRA is used for the restoration of weathered single ply membranes as well as smooth surface asphalt built-up and modified bitumen roof systems, concrete and polyurethane foam.

Advantages

SOLARGARD ULTRA's formulation allows for an extremely rapid cure reducing wash-off potential and permitting high film build. The elastomeric film will move with substrate movement and its durability will extend the useful life in many roofing assemblies. The highly reflective coating reduces surface temperature and air conditioning loads.

Limitations

Surface must be clean, dry and free of dirt, dust and other contaminants. Not intended for use in ponded areas per NRCA guidelines. Not for use over embedded gravel surfaces. Application temperature shall be above

50°F. Protect from freezing. Do not apply if rain is imminent. Allow minimum 30 day cure period of newly applied roof mastic and cold process roof systems such as the PERMAFLEX system. Do not apply over hot applied asphalt or coal tar pitch flood or glaze coats. Vertical surfaces require a 2 coat application to minimize the potential for sag of the coating. Storage life is six months in unopened containers. Do not store at temperatures above 90°F.

Preparation

All surfaces are to be free of dirt, grease, oil, gravel, loose paint, loose 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.

All weathered single ply membranes, concrete, and existing polyurethane foam require light priming with REPUBLIC SINGLE PLY PRIMER at a coverage rate of 200-300 sq. ft./gal. Allow primer to fully dry. All asphaltic surfaces including non-granulated modified bitumen and smooth BUR require priming with REPUBLIC WB PRIMER at a coverage rate of 200-400 sq. ft./gal. The coverage rate on granulated modified bitumen roof surfaces is 100 sq. ft./gal. The surface dictates the actual coverage; the amount shown is intended as minimum application information.

Any preliminary patching, surface or flashing repairs should be repaired as needed. Refer to appropriate application specification for further information.

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

Coverage

Porosity, texture of surface, and specified dry-film thickness will dictate coverage. Recommended coverage rate for most single ply membranes is a minimum 2 gal./100 sq. ft. (32 wet mils) applied in a one-coat

TECHNICAL DATA

Weight per Gallon (ASTM D 1475)	8.4 ± 0.5 lbs.
Specific Gravity (ASTM D 1475)	1.00 ± 0.2
Solids by Weight (ASTM D 1644)	60% ± 1%
Solids by Volume (ASTM D 2697)	60% ± 1%
Elongation @ 73°F (ASTM D 2370)	80% ± 10%
Flexibility @ -15°F after 1000hrs (ASTM D 522)	Passes 1/2 inch mandrel bend
Tensile Strength @ 73°F (ASTM D 2370)	389 ± 1 psi
Dry Time (ASTM D 1640)	1 hour to touch 24 hours to recoat
Flashpoint	None
Color	White
Clean Up	Soap & water
VOC (ASTM D 3960)	35 g/l
Reflectance (ASTM C 1549)	86%
Emissivity (ASTM C 1370)	93%


REPUBLIC
POWDERED METALS, INC.

Republic Powdered Metals, Inc.
2628 Pearl Road • Medina, OH 44256
www.rpmrepublic.com

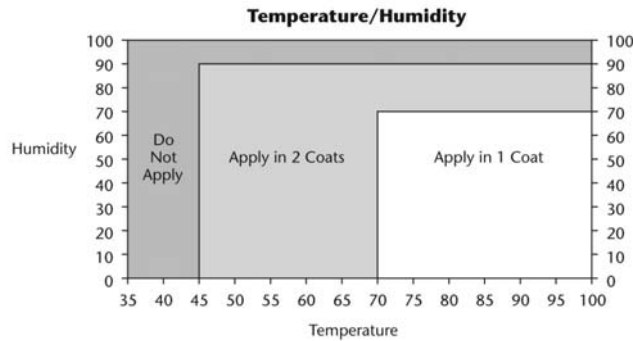
SOLARGARD[®] ULTRA

application. Coverage rate for smooth BUR, modified bitumen, concrete and foam is a minimum of 3 gal./100 sq. ft. (48 wet mils) applied in two coats. Coverage rate for granular modified bitumen is 3 1/2 gal./100 sq. ft. (56 wet mils) applied in two coats. Vertical surfaces require a 2-coat application to minimize the potential for sag of the coating.

Application

Mix each container of SOLARGARD ULTRA with a power assisted mechanical mixer before use. Mix until coating is smooth and consistent. For pails, a Jiffy Mixer attached to a low speed power drill is recommended. For drums, a 600 Series Drum Mixer is recommended.

Refer to temperature/humidity chart. Do not apply at temperatures below 45°F or at Relative Humidity above 90% RH.



SOLARGARD Ultra can be applied by brush, roller, or spray gun to specified coverage rates.

Refer to application specifications for additional 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 - 3/8" (50/100') to 5/8" (50/100') to 1/2" (50/100') to 3/8" (50'). Good results are generally obtained @ 2000-3000 psi at the spray tip.

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

Tip Sizes:

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

•Graco Heavy - Duty RAC Switch tips (GHDXXX) Grey

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.



Republic Powdered Metals, Inc.

2628 Pearl Road • Medina, OH 44256

800/551-7081 • Fax: 800/382-1218 • www.rpmrepublic.com



Member of Cool Roof Rating Council



SOLARGARD is a U.S. registered trademark of Republic Powdered Metals, Inc.

The information provided on this data sheet is effective as of August 2009 and supersedes all previous data concerning this product and its application.

© Republic Powdered Metals, Inc., 2009. All Rights Reserved.

The Statements provided concerning the materials shown are intended solely as a general guide for material usage and are believed to be true and accurate. Since the manner of use is beyond our control, Republic DOES NOT MAKE NOR DOES IT AUTHORIZE ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PURPOSE, OR ANY OTHER WARRANTY, GUARANTEE OR REPRESENTATION, EXPRESSED OR IMPLIED, CONCERNING THIS MATERIAL EXCEPT THAT IT CONFORMS TO REPUBLIC'S PRODUCT SAMPLE. Buyer and user accept the product under those conditions and assume the risk of any failure, injury of person or property and loss or liability resulting from the handling, storage or use of the product, whether or not it is handled, stored, used in accordance with directions or specifications. UNDER NO CIRCUMSTANCES SHALL REPUBLIC BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES ARISING FROM ANY BREACH OF WARRANTY. IN ALL CASES, REPUBLIC'S LIABILITY IS LIMITED, AT REPUBLIC'S OPTION, TO THE REPLACEMENT OF GOODS, OR THEIR VALUE, PROVEN TO BE DEFECTIVE IN MANUFACTURING.