

PRODUCT IDENTIFICATION

GEOGARD® LO Base

GEOGARD LO Base Coat

491L02C- 2 gallon cans

491L05P- 5 gallon pails

HIGH SOLIDS, LOW VOC, LOW ODOR BASE COAT USED WITH GEOGARD FINISH COATS

Description

The GEOGARD LO is a high solids, low VOC, low odor, aromatic urethane base coat, used in conjunction with GEOGARD Finish Coat as a restoration system.

Uses

The GEOGARD LO Base Coat with GEOGARD Finish Coat is used as a restoration coating system to protect and extend the life of a variety of weathered single ply roof membrane systems, smooth BUR, modified bitumen, polyurethane foam and structural concrete roofs. It is always applied in a two-coat process, as a base coat and finish coat. The GEOGARD LO Base Coat is highly elastomeric and bonds directly to the prepared surface. The GEOGARD Finish Coat is white and protects the roofing assembly from airborne pollutants, residual factory emissions, and damaging UV radiation.

Advantages

GEOGARD LO Base Coat and Finish Coats are single component products, meaning there is no blending of multi-component kits. The GEOGARD LO Base Coat and GEOGARD Finish Coat System extends the life of single-ply roofs and other roof substrates. The finish coat is reflective, resulting in lower surface temperatures, increased roof life and lower energy costs.

Limitations

Do not apply when air or surface temperature is below 50°F or above 110°F or when rain is imminent. The GEOGARD LO Base Coat and GEOGARD Finish Coat System is not intended for use in continual ponding water areas, over lightweight concrete, over non-reinforced PVC single ply systems or new single ply roof membranes. Allow new single ply roofs to age 6 months prior to application of the GEOGARD LO Base Coat and GEOGARD Finish Coat System. Do not use on roof membranes where plies have become embrittled or where the substrate or insulation has become saturated with water. Do not use over tar, silicone based coatings, gravel surfaced BUR, or acrylic latex coatings. **Note: All EPDM membranes must be looked at individually as some EPDM formulations have a potential for membrane swelling due to the solvent content in GEOGARD.** A test application must be conducted by applying GEOGARD LO Base Coat at 1 gal./100 sq. ft. or 16 wet mils. Check for swelling for a 12-24 hour period. If membrane swells, a very light application of

GEOGARD LO Base Coat is recommended at 8 wet mils. After 24 hour cure, follow with the remainder of actual coverage rate. Recoating of GEOGARD LO Base Coat must be performed within 48 hours of initial application. Beyond that time, the GEOGARD LO Base Coat must be primed prior to the application of GEOGARD Finish Coat.

Coverage

The GEOGARD LO Base Coat and GEOGARD Finish Coat System is to be applied in two coats consisting of a Gray Base Coat and White Finish Coat. The GEOGARD LO Base Coat will be applied as follows:

Weathered Single Ply	1gal./100 sq. ft. (16 wet mils)
Foam	2 1/2 gal./100 sq. ft. (40 wet mils)
Concrete	2 1/2 gal./100 sq. ft. (40 wet mils)
Smooth Surface Built-Up & Modified Bitumen Roofing	2 1/2 gal./100 sq. ft. (40 wet mils)

The GEOGARD Finish Coat will be applied at a coverage rate of 1 gal./100 sq. ft. (16 wet mils) on all surfaces.

Note: Because of the irregular surface that can be encountered, the GEOGARD LO Base Coat amounts are minimum requirements and may be increased due to surface conditions.

Preparation

Surfaces must be clean and dry. Remove all loose gravel, dirt, and foreign matter with a stiff broom or proper mechanical equipment. Ruptures, splits, cuts, and torn flashings shall be repaired as needed. Blisters must be cut open and allowed to dry.

Refer to appropriate specifications for detailed instructions.

Republic always recommends a test sample applied in an area representative of conditions. A test application is the best method of determining compatibility with and adhesion to the membrane or previously coated surface. Material should be stored in an area sheltered from harsh weather conditions at temperatures ranging from 60°F to 80°F and low humidity.

Application

GEOGARD LO Base Coat and GEOGARD Finish Coat may be applied by brush, roller, squeegee, or heavy-duty airless spray. **MIX WELL BEFORE USE, USING A POWER ASSISTED MIXER.** If applying with spray equipment, thinning instructions are listed below. Do not thin inconsistent with regulations. A grid layout of the surface is recommended so that proper application quantities can be calculated as the job progresses. Wet mil thickness must be tested with a wet mil gauge as the job progresses to assure that the dry mil thickness is achieved in all coated areas. Republic provides on request information regarding wet and dry mil thickness, temperature, dew point, and a wet mil thickness gauge.

TECHNICAL DATA – BASE COAT

Weight per Gallon (ASTM D 1475)	11.5 ± 0.2 lbs.
Specific Gravity	1.38 ± 0.02
Solids by Weight	96% ± 1%
Solids by Volume	95% ± 1%
Elongation (ASTM D 412)	500-700%
Flexibility @ 77°F (ASTM D 1737)	Passes 1/8" mandrel bend
Tensile Strength (ASTM D 412)	220-260 psi
Shore "A" Hardness (ASTM D 2240)	37
Dry Time (ASTM D 1640)	12 hours to tack free 24 hours to full cure
Flashpoint (Seta Flash)	>200°F
Clean Up	Republic Thinner #1 or Xylene
VOC	< 50 g/l



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GEOGARD[®] LO Base Coat

When applying GEOGARD LO and GEOGARD Finish Coat over a previously coated substrate, a test patch should be applied to determine compatibility. GEOGARD LO Base Coat MUST BE TOPCOATED with GEOGARD Finish Coat within 24-48 hours following the application of the Base Coat. If left uncoated for more than 48 hours, the surface must be primed with GEOGARD PRIMER prior to applying the Finish Coat. Environmental conditions associated with extremes in temperature and humidity may affect cure rates and recoat limitations. Refer to application specifications for additional information.

Spray Equipment Recommendation

Pumps: Graco King 45:1 or gas powered equivalents. Graco GH733, HydraMax 350 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')

Good results are generally obtained @ 2500-3500 psi at spray tip.

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

•Graco Heavy - Duty RAC Switch tips

(GHDXXX) Grey

- Additional tip sizes are available between .039-.059
- Base Coat should be applied with a tip size of .043-.060
- Finish Coat should be applied with a tip size of .039-.049

Tip Sizes:

Fan Width (in)	.039	.043	.047	.051	.055	.059
10"-12"	539	543	547	551	555	559
12"-14"	639	643	647	651	655	659
14"-16"	739	743	747	751	755	
16"-18"	839	843	847	851	855	
Flow Rate	1.60 gpm	1.98 gpm	2.37 gpm	2.79 gpm	3.25 gpm	3.74 gpm

Note: If thinning is required for spray application, use Republic Thinner #1. If trying to thin the product in a VOC restricted area, Xylene can not be used to thin the product. Please contact Republic Technical Service for further information. GEOGARD LO Base Coat can be thinned up to 15% by volume (3/4 gal. thinner/5 gal. pail), but do not thin inconsistent with application rates. (Application rates must be increased equal to the amount of thinner added.) Example: GEOGARD LO Base Coat reduced 15% by volume applied at 1 gal./100 sq. ft. (16 wet mils) would require an additional 2.4 wet mils (16 × .15 = 2.4) to compensate for reduced volume solids of the thinned material.

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 conditions. 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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