

► SparticGhard 100

Polyaspartic Surface Top Coat

Ghemco SparticGhard is an aliphatic, polyaspartic, environmentally-friendly surface top coat for waterproofing membrane systems. SparticGhard is quick curing and specifically formulated to be installed in thin film applications. Ghemco manufactures products in different VOC's ranging from 100 to 340 gms/liter to comply with VOC requirement in various regions. Make sure to use the correct grade of product which complies with VOC regulations/requirements applicable as per federal, state, statutory, counties, cities and local bodies at the place of installation.

FEATURES & BENEFITS

- Quick Cure
- Color Stable
- High Tensile Strength
- High Gloss
- Abrasion Resistant
- Very Durable
- Excellent Weatherability
- Seamless Waterproofing Membrane
- UV Resistant For Superior Gloss Retention

TYPICAL USES

- Concrete
- Plywood
- Cold Storage Areas
- Chemical Plants
- Fertilizer Plants
- Off-Shore Oil Platforms
- Steel
- Plastic
- Food Processing Areas
- Pulp and Paper Mills
- Pipeline Barges

DIRECTION OF USE

Surface Preparation

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Refer to product General Guidelines for detailed surface preparation information.

Minimum recommended surface preparation:

METAL: SSPC-SP6/NACE 3, 2 mils (50 microns) profile

CONCRETE & MASONRY: SSPC-SP13/NACE 6 or ICRI No. 310.2 CSP 3-5. Primer required.

Mixing

SparticGhard may not be diluted under any circumstance. SparticGhard Side-A and Side-B should be mixed individually before combining. Add Side-B to Side-A while mixing, using a mechanical mixer at medium speed. Mix until a homogeneous mixture and color is attained (at least 5 minutes) and mix frequently during application to maintain uniform color. Use care to scrape the sides of the container to ensure that no unmixed material remains. Use caution not to whip air into the material as this may result in pinhole blisters and/or shortened pot life.

Do not mix in an up and down motion. Do not mix any material that cannot be used within 45 minutes.

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DIRECTION OF USE

Application

SparticGhard can be applied by phenolic resin core roller, high pressure spray, or through a cup gun under low pressure. SparticGhard should be applied at a minimum film thickness of 5 mils (127 microns). It should be noted that the heavier the application, the longer the curing process takes.

Apply SparticGhard evenly over the entire deck. For best results, use an airless sprayer. A phenolic resin core roller may be used, but extra care should be taken not to cause air bubbles.

Curing

At 75°F (24°C) and 50% relative humidity, allow each coat to cure 2-4 hours.

Allow 6 hours before permitting light pedestrian traffic and at least 24-48 hours before permitting heavy pedestrian traffic on to the finished surface.

Uncured SparticGhard is very sensitive to heat and moisture. Higher temperatures and/or high humidity will accelerate the cure time. Use caution in batch sizes and thickness of application. If more than 12 hours have passed after applying clear coat of SparticGhard, then re-prime surface with SPUR Primer and apply SparticGhard pigmented coat. If clear coat is required, then clear coat should be applied only after pigmented coat. If clear coat is applied after primer, the primer will become yellowish with exposure to light and surface will look not aesthetically pleasing.

Low temperature and/or low humidity extend the cure time.

SAFETY & PRECAUTIONS

Cleanup

Equipment should be cleaned with an environmentally safe solvent, as permitted under local regulations, immediately after use.

Storage

SparticGhard has a shelf life of 1 year from date of manufacture in original, factory-sealed containers when stored indoors at a temperature between 60-95°F (15-35°C).

Limitations

The following conditions must not be coated with Ghemco deck coatings or systems: split slabs, buried membrane, sandwich slabs with insulation, slabs over unvented metal pan, magnesite, and non-structural lightweight concrete. On grade slabs may receive Ghemco coatings provided a moisture-vapor transmission test is first performed. Please contact Ghemco's technical department with the results.

With regard to coating asphalt surfaces, please contact Ghemco's technical department. Surfaces must be dry, clean and free of foreign matter. Clear coating may turn opaque and cloudy due to moisture penetration, especially in exterior applications. Surface may be slippery when wet. Containers that have been opened must be used as soon as possible. Do not dilute under any circumstance.

Warning: This product contains Isocyanates and Solvent.

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TECHNICAL DATA

	SparticGhard 100 (Clear)	SparticGhard 100 (Color)
Color	Clear	Tan, Dolphin Grey
Viscosity at 75°F (24°C) <small>Side A / Side B</small>	200 ± 50 cps / 200 ± 50 cps	200 ± 50 cps / 1400 ± 200 cps
Coverage Rate	1 gal / 100 sqft (0.41 l/sqm)	1 gal / 100 sqft (0.41 l/sqm)
Dry Film Thickness	14 ± 2 mils	14 ± 2 mils
Pot Life @ 75°F (24°C)	25 - 30 minutes	45 - 60 minutes
Hardness ASTM D-2240	65 ± 5 Shore A	65 ± 5 Shore A
Tear Resistance <small>ASTM D-624</small>	400 ± 50 pli / 70.1 ± 8.8 kN/m)	400 ± 20 pli / 70.1 ± 8.8 kN/m)
Tensile Strength <small>ASTM D-412</small>	3500 ± 300 pli / 24.1 ± 2.1 MPa)	3500 + 300 pli / 24.1 + 2.1 MPa)
Ultimate Elongation <small>ASTM 412</small>	50 ± 10%	50 ± 20%
Specific Gravity <small>(Side A / Side B)</small>	1.07 ± 0.1 / 1.02 ± 0.1	1.07 ± 0.1 / 1.27 ± 0.1
Total Solids by Weight	90 ± 2%	91 ± 2%
Total Solids by Volume	88 ± 2%	89 ± 2%
VOC	0.83 lb/gal (100 gm/liters)	0.83 lb/gal (100 gm/liters)

* This information is intended only as a guide for design purposes. The values shown are the average values obtained from sprayed laboratory samples. The test methods were performed per the ASTM Book of Standards. Higher or lower temperature & humidity conditions will affect dry time. The information contained herein is for purposes of identifying the product and does not constitute a warranty that the product will conform to that description. Product specifications and performance will vary depending on application methodologies, raw materials and other factors.

Please read all information in the general guidelines, technical data sheets, application guide, and safety data sheets (SDS) before applying material. Published technical data and instructions are subject to change with-out notice. Contact your local Ghemco Representative or visit our website for current technical data and instructions. **DISCLAIMER:** All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy himself, by his own information and tests, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazards listed herein are the only ones that may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether verbal or in writing, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and Ghemco makes no claim that these tests or any other tests, accurately represent all environments.