

AG H-1000

Two Component Modified Polyurea Protective Coating

DESCRIPTION

AG H-1000 is a two component, 1:1, 100% solids, fast set, liquid applied, modified polyurea liner system for metal, concrete, fiberglass and wood surfaces.

FEATURES

Seamless / High Build / Tough and Elastomeric / Quick Drying / Chemical Resistance /Low Temperature Flexibility /Abrasion and Impact Resistant

TYPICAL USES

Truck Bed Surfaces / Cargo Holds / Utility Vehicles / Horse Trailers / Cargo liners /Industrial Floorings Boat Linings / Walkways / Waterproof Decking / Containment Areas / Encapsulation of Fiberglass Bodies and Polystyrene Foams.

COLOR

Clear/Neutral or Black. Custom colors are available upon request. Color Packs, when used, must be added to Part-B. Due to its aromatic composition, AM MPL 55 will tend to yellow or darken in color and will become flat after exposure to UV light. **AG H-1000** may be top coated within twelve hours of application with an aliphatic polyurethane/ polyurea coating for a colorfast finish.

PACKAGING

10 gallon kit: 5 gallons (47 lbs. net) Side-A (Isocyanate side) and 5 gallons (43 lbs. net) Side-B (Resin side). 100 gallon kit: 50 gallons (473 lbs. net) Side-A (Isocyanate side) and 50 gallons (neutral: 433 lbs. net, black: 435 lbs. net) Side-B (Resin side)

PACKAGING

10 gallon kit: 5 gallons Part-A (Isocyanate side) and 5 gallons Part-B (Resin side). 100 gallon kit: 50 gallons Part-A (Isocyanate side) and 50 gallons Part-B (Resin side).

COVERAGE

AG H-1000 may be applied at any rate to achieve desired thickness. Theoretical coverage for 1 mil thickness is one gallon per 1600 sq. ft.

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TECHNICAL DATA

1A:1B
2-4 seconds
10-30 seconds
0-12 hours
eld:
120 ± 20 cps
190 ± 20 cps
9.17 lbs/gal
1.10
>200°F
55 ± 5 Shore D
2700 ± 300 psi
200 ± 20%
400 ± 40 pli
20°F to 250°F
0 gm/lit
> 2 mm
ng) ASTM G-23

Return to Service Foot Traffic1-4 hrs Taber Abrasion Resistance ASTM D4060 (CS17 WHEEL, 1000 cycles, 1 kg load Water Absorption, ASTM D471 Maximum 23'c, Crack Bridging, ASTM C836, (-25'C 1.6 mm crack 25 cycles)Pass Impact Resistance @ 25'c (ASTM G14) ..>200 Lbs Pull-Off Strength (minimum), ASTM D4541 Inter-Coat Adhesion (within recoat time)...Excellent Concrete (shot blasted profile) substrate failure occurred>500 psi Concrete (Primed) substrate failure occurred >500 psi Steel (90 um blast profile)>900 psi Lineal Shrinkage>900 psi Flexibility (1/8" 3mm Mendrel Bend Test), ASTM

(Type QUV Weatherometer-3000 hrs exposure)....... No Cracking or blistering. Color change, gloss reduction & chalking are noted. (*These physical properties from sample sprayed with Graco Foam Cat 200 @ 2000 psi minimum, with Gusmer GX7-400 mechanical purge gun @ 150-160°F. Different machine and parameter will change these properties. User should perform their own independent testing as properties are approximate.)



SURFACE PREPARATION

In general, coating performance and adhesion are directly proportional to surface preparation. Most failures in the performance of surface coatings can be attributed to poor surface preparation. Polyurea coatings rely on the structural strength of the substrate to which they are applied. All surfaces must be free of dust, dirt, oil, grease, rust, corrosion and other contaminants. When coating substrates previously used, it is important to consider the possibility of substrate absorption, which may affect the adhesion of the coating system, regardless of the surface preparation. Ameraguard recognizes the potential for unique substrates from one project to another. The following information is for general reference, and for project-specific questions, contact Ultimate Linings.

New and Old Concrete:

Refer to SSPC-SP13/NACE 6, or ICRI 03732: CSP 3-5. New concrete must be cured for 28 days prior to product application. Surface must be clean, dry, sound and offer sufficient profile for product adhesion. Remove all dust, dirt, oil, form release agents, curing compounds, salts, efflorescence, laitance and other foreign matter by shot blasting and/or suitable chemical means, in accordance with local chemical

regulations. Rinse thoroughly, to achieve a pH between 8.0 and 11.0. Allow to dry completely. If old concrete has a surface that has deteriorated to an unacceptably rough surface, Ultimate Lining Products PC-260 or a mixture of AM 21 and sand should be used as a repair agent for cracks, spalls, bug holes and voids.

Concrete Surface Preparation Reference:

ASTM D4258 - Standard practice for cleaning concrete ASTM D4259 - Standard practice for abrading concrete ASTM D4260 - Standard practice for etching concrete ASTM F1869 - Standard test method for measuring moisture vapor emission rate of concrete ICRI 03732 - Concrete surface preparation

Wood:

All wood should be clean, dry and free of any knots, splinters, oil, grease or other contaminants. Splintered or rough areas should be sanded. Knots should be repaired using Ultimate Lining Products PC-260 with sand.

Steel (Atmospheric and Immersion Exposure):

Remove all oil, grease, weld spatters and round off any sharp edges from surface. Minimum surface preparation is Near White Metal Blast Cleaning per SSPC-SP10/NACE 2. Optimum surface profile is 2-3 mils. Prime and shoot UL® on to any bare metal the same day as it is cleaned to minimize any potential flash rusting.

Aluminum:

Aluminum should be blasted with aluminum oxide or sand, and not with steel or metal grit. Excessive blasting may result in a warped or deformed surface. After blasting, wash aluminum with a commercially available aluminum cleaner. Allow to dry, then prime.

Brass and Copper:

Brass and copper should be blasted with sand, and not with steel or metal grit. Remove all dust and grease prior to applying primer.

Galvanized Surfaces:

Clean and degrease any contaminated surfaces. Do not blast galvanized surfaces with an abrasive grit.

Fiberglass Reinforced Plastic:

The gel coat should be lightly blasted or sanded with 80 grit sandpaper and cleaned.

Plastic Foams:

Enhanced adhesion is obtained when the foam is mechanically abraded. When coating polystyrene, do not use a solvent-based primer.

Textiles, Canvas, Fabrics:

Adhesion to most fabrics, geothermal membranes and textiles does not require a primer.

Stainless Steel:

Stainless steel may be grit blasted and degreased. Some stainless steel alloys are so inert that it is not possible to achieve a satisfactory bond. An adhesion test is recommended prior to starting the project.



New and Old Cast Iron:

Blast with a steel grit and degrease. Old cast iron is difficult to prepare for a satisfactory bond. It can absorb oil and water soluble contaminants that will keep returning to the surface after the coating system has been applied and affect the coating system adhesion. An adhesion test is recommended prior to starting the project.

All Other Surfaces:

An adhesion test is recommended prior to starting the project.

MIXING

AG H-1000 may not be diluted under any circumstances. Thoroughly mix AG H-1000 Part-B (Resin side) with air driven power equipment until a homogeneous mixture and color is obtained.

APPLICATION

Both Part-A and Part-B material should be preconditioned at 80-90°F before application. Recommended surface temperature must be at least 5°F above the dew point. AG H-1000 should be applied using a plural component, heated, high pressure 1:1 spray mixing equipment like Graco's Reactor, Glass Craft or other equivalent machine may be used. Both Part-A and Part-B materials should be sprayed at a minimum of 2000 psi and at temperatures above 150°F. Adequate pressure and temperature should be maintained

at all times. AG H-1000 should be sprayed in smooth, multidirectional passes to improve uniform thickness and appearance.

EQUIPMENT CLEAN UP

Equipment should be cleaned with an environmentally safe, urethane-grade solvent (alcohol free) as permitted under local regulations immediately after use.

STORAGE

AG H-1000 has a shelf life of six (6) months from date of manufacture, in factory-sealed containers. Part-A and Part-B drums must be stored above 60°F. Avoid freezing temperatures. Store drums on wooden pallets to avoid direct contact with the ground. If stored for a long period of time, rotate Part-A and Part-B drums regularly.

LIMITATIONS

Do not open until ready to use. Both Part-A and Part-B containers must be fitted with a desiccant device during use.

WARNING

This product contains Isocyanates and Curative Material.

Please read all information in the general guidelines, product data sheets, guide specifications and material safety data sheets (MSDS) before applying material. Published technical data and instructions are subject to change without notice. Contact your local

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