POLYGLASS® HRA

HOT-APPLIED RUBBERIZED ASPHALT WATERPROOFING MEMBRANE

PRODUCT DESCRIPTION

Polyglass HRA is a 100% solids, asphalt-based, fluid-applied waterproofing solution designed to create a seamless, fully adhered barrier, eliminating the vulnerabilities of seams and joints that can lead to water intrusion. Polyglass HRA can be utilized in plaza decks, green roofs, tunnels and below grade wall applications, offering superior protection in environments that demand long- term durability and moisture resistance.

FEATURES AND BENEFITS

- Seamless waterproofing: forms a continuous, fully adhered membrane
- Remains flexible at low temperatures
- Fully bonds to substrate reducing risk of water intrusion
- Flexible composition allows for superior crack bridging
- Can be installed as low as 0°F (-18°C)
- Time-tested technology with a long-standing track record in demanding waterproofing conditions
- Suitable for various surfaces including concrete, gypsum, and wood
- Meets CGSB 37.50-M89 specifications for asphalt-based roofing and waterproofing

SYSTEM COMPONENTS

- PG 100, Fast-Drying Asphalt Primer
- Mapeseal® LMR Fabric, Non-Woven Polyester Fabric
- 2.2 mm Reinforced Protection Sheets
  - Elastobase® P, Polyester
  - Elastoflex V 22, Fiberglass
- 3 mm Reinforced Protection Sheets
  - Elastoflex S6, Polyester
  - Elastoflex V, Fiberglass
- Semi Rigid Asphaltic Protection Course
  - Polyboard E
- High Strength and High Flow Drainage Mat with Protective Film
  - Mapedrain® HS Plus, Vertical or Horizontal Grade with Geotextile Fabric
  - Mapedrain® HSW, Vertical or Horizontal Grade with Woven Fabric
- Polyglass® Uncured Neoprene Flashing, 60 mil Uncured Neoprene Flashing

TECHNICAL DESCRIPTION*

Property	Test Method	Requirement
Application Temperature		380 – 400°F (193 – 204°C)
Recycled Content		15%
Flow at 140°F (60°C)	ASTM D5329	3 mm max.
Cone Penetration at 77°F (25°C)	ASTM D5329	110 max.
Cone Penetration at 122°F (50°C)	ASTM D5329	200 max.
Toughness	CGSB 37.50-M89	5.5 joule min.
Toughness Ratio	CGSB 37.50-M89	0.04 min.
Adhesion Rating	CGSB 37.50-M89	Pass
Water Vapor Permeance	ASTM E96	1.7 ng/Pa.m^2.s
Water Absorption	CGSB 37.50-M89	0.35 g max. gain / 0.18 g max. loss
Low Temperature Flexibility	CGSB 37.50-M89	Pass at -13°F (-25°C)
Crack Bridging	CGSB 37.50-M89	Pass
Heat Stability (5 hours)	CGSB 37.50-M89	Pass
Viscosity at Application Temperature	CGSB 37.50-M89	2 – 15 seconds
Flash Point, C.O.C.	ASTM D92	500°F (260°C) min.

PRODUCT DATA

Weight per box ..... 30 lb (13.6 kg)
Boxes/Pallet.....75

APPROVALS & CERTIFICATIONS

- UL Classified – File #R14571

WHERE TO USE

- Plaza Decks
- Blue Roofs
- Amenity Decks
- Protected Roof Membrane Assembly (PRMA)
- Tunnels
- Below Grade Walls

PRODUCT CODES

- 6745014

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MAPEI GROUP

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COVERAGE

Thickness	Coverage Rate
90 mils	0.56 lb/ft²
125 mils	0.77 lb/ft²
215 mils	1.33 ib/ft²

STORAGE AND SHELF LIFE

5 year shelf-life if stored in its original packaging in a dry environment at a temperature between 40°F and 90°F (4°C and 32°C). Store off the ground and protected from moisture.

LIMITATIONS

- Minimum concrete density of 115 pcf. For installation on lightweight structural concrete with a density below 115 pcf, consult Polyglass Technical Services.
- Lightweight insulating concrete is not an acceptable substrate for the Polyglass HRA system.
- Not intended for permanent exposure or to be used as a traffic bearing system.

SURFACE PREPARATION

All surfaces must be structurally sound, clean, dry, free of voids, laitance, oil, rust, paint, frost, surface water and other contaminants that may be detrimental to the adhesion of the Polyglass HRA system. Concrete substrates should have a ICRI surface profile of 3 – 5 with a wood float or broom finish. It is recommended that concrete is cured for 28 days prior to application with a minimum of 14 days, provided the moisture level prevents blisters during the application of the primer and Polyglass HRA membrane.

PRODUCT APPLICATION

TEMPERATURE

The recommended ambient and substrate surface temperature for installation is 40°F (5°C) and rising. The system does have the ability to be installed as low as 0°F (-18°C), provided the substrate is clean, free of ice, frost, and snow. Contact Polyglass Technical Services for cold weather applications.

PRIMING

Apply PG 100 at a rate of approximately 250 – 400 ft² per gallon. Avoid pooling/puddling of primer and allow thorough drying prior to the application of the Polyglass HRA. Plywood, metal, and gypsum board substrates would not require priming. Coverage rate may vary based on the surface profile of the substrate.

APPLICATION OF POLYGLASS HRA

The use of an oil jacketed kettle or jacketed melter with mechanical agitation and bring the material temperature within the range of 350°F to 400°F (177°C to 204°C). Direct fired melters should be avoided. Best practice would be to ensure the melter remains at three-quarters of its capacity at all times by regularly adding HRA. Prevent overheating to avoid cross-linking, which could damage equipment and impair the product's intended performance.

All cracks, construction and or control joints over 1/16" and up to 1/8" wide should be treated with 125 mils of Polyglass HRA installed approximately 8" – 12" wide with a 6" wide piece of Mapeseal LMR Fabric embedded into the warm and tacky HRA. For cracks/joints over 1/8" wide, a minimum 6" wide piece of Polyglass Uncured Neoprene should be embedded in the 125 mil layer of Polyglass HRA centered over the crack/joint. Overlaps of the uncured neoprene, should be a minimum of 3" ensuring Polyglass HRA is installed between the laps. For expansion joints, see Polyglass standard details or consult Polyglass Technical Services.

All detailing/flashing should be completed prior to the application of the Polyglass HRA membrane according to Polyglass standard details.

After detailing is complete, apply the Polyglass HRA to primed substrates using rubber squeegees. Apply 90 mils (2.3 mm) of HRA and immediately embed the Mapeseal LMR Fabric into the HRA while still warm and tacky, overlapping the fabric a minimum of 1", ensuring HRA is installed between the overlapping fabric layers. Use a broom or squeegee to ensure the fabric lays flat without any entrapped air. Install a second layer of HRA at 125 mils fully encapsulating the fabric. While the top layer of HRA is still warm and tacky install the applicable Polyglass protection sheet.

Conventional flood testing or electronic leak detection can be completed 24 hours after application. For vertical backfilled walls, backfilling can be completed 24 hours after application.

PRECAUTIONS

Hot asphalt will cause burns, avoid contact with skin. Applicable PPE should be worn at all times. Use only with adequate ventilation, avoid breathing HRA fumes and wear applicable respiratory protection.

PACKAGING

The product is shipped in individual boxes that are palletized for ease of transport. Each block of HRA is wrapped and then placed in the box. The HRA block and wrapping is added directly to the melter. Each gallon of HRA weighs approximately 9.9 lbs at 60°F (1.19 kg per liter at 16°C).

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Product Disclaimer:
For professional use only.

Unless otherwise incorporated into or part of a supplemental manufacturer's warranty, Polyglass warrants its product(s) against manufacturing defects in its product that directly results in leakage for a period of 1 year. Refer to safety data sheet (SDS) for specific data and handling of our products. All data furnished refers to standard production and is given in good faith within the applicable manufacturing and testing tolerances. Polyglass U.S.A., Inc., reserves the right to improve and change its products at any time without prior notice. Polyglass U.S.A., Inc. cannot be held responsible for the use of its products under conditions beyond its own control. For most current product data, detail drawings and warranty information, visit www.polyglass.us

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