



HydroGel

Product Description

Basic Use: HydroGel is a component of the HydroGel hot fluid-applied composite waterproofing assembly developed with Polymer Rubber Gel Technology.

HydroGel is non-slumping, flexible, and does not off-gas or lose film thickness after application. HydroGel maintains a watertight barrier during horizontal and vertical substrate movement, has excellent crack-bridging and crack-sealing capabilities, and eliminates lateral water migration. Ideal for horizontal and vertical applications, HydroGel can be applied over green concrete, as a restoration membrane over previously applied waterproofing systems, and in below freezing weather conditions.

Designed for projects where performance is paramount, HydroGel composite assemblies combine the benefits of a self-healing and structurally responsive monolithic fluid applied waterproofing membrane with EPRO's GFG Series high density polyethylene (HDPE) vapor barrier protection course.

LEED: HydroGel contains over 20% recycled content and is produced in an ecological minimal-impact facility.

Composition: HydroGel is a single-component, 99% solids, and VOC-free polymer rubber gel formulated with asphalt, recycled rubber fibers, and proprietary polymers and resins.

Benefits

- Self-heals damage to membrane.
- Self-seals cracks to prevent lateral water migration.
- No VOCs, no volume loss, and primer-free application.
- Seamless fluid application fully bonds to substrate.
- Composite assembly meets Class A vapor barrier standards.
- Fast installation in all temperatures.
- Designed for new construction and green concrete applications.
- Designed to restoration applications over rough substrates and previously installed waterproofing.

Limitations

- Requires specialized hot melt equipment for application.
- HydroGel must be installed with a protection course.

Technical Data

Properties: See physical properties table.

Coverages: *Per tote based on concrete surface profile (CSP).*

General New Construction (CSP 1-4):

- 100ft² @ 90 mil; 75ft² @ 120 mil (9.3m² @ 2.3mm; 7m² @ 3mm)

General Restoration (CSP 5-8):

- 75ft² @ 90 mil; 60ft² @ 120 mil (9.3m² @ 2.3mm; 7m² @ 3mm)

Storage and Handling: Store raised off the floor away from sun and moisture, between 40-80°F (5-27°C), maximum 7 boxes high.

Specification Writer: Contact EPRO before writing specifications on this product. HydroGel Polymer Rubber Gel Waterproofing System should be reviewed in order to meet project specific site conditions.

Installation

Preparation: Please refer to manufacturer's specifications for substrate requirements. Totes should be inspected for surface damage prior to application.

Application: Please refer to manufacturer's specifications. Before application, HydroGel must be melted with a air/oil jacketed heated spray pump (360-390°F | 182-199°C) or air/oil jacketed hot melt kettle (250-340°F | 120-170°C).

Installation of Fluid Membrane:

Spray: Use HydroGel Application Gun to spray a monolithic coat across the substrate, min. of two passes to reach system thickness. **Squeegee:** Use a hot melt bucket to pour onto substrate and use spread HydroGel in 3-4 passes to reach system thickness.

Apply SkrimTape reinforcement tape into areas requiring detailing.

Installation of Protection Sheet: Cover fluid applied membrane with GFG Series HDPE protection sheet and tape seams with DuroTape.

Availability and Packaging

Contact EPRO sales representative for local distributors or authorized applicators (www.eproinc.com).

Tote Size: 22"L x 14"W x 6"H (550mm x 350mm x 150mm), 44 lbs (20 kg)

Warranty

Limited Warranty: EPRO Services, Inc. believes to the best of its knowledge that performance tables are accurate and reliable. EPRO warrants this product to be free from defects. EPRO makes no other warranties with respect to this product, express or implied, including without limitation the implied warranties of MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. EPRO's liability shall be limited in all events to supplying sufficient product to retreat the specific areas to which defective product has been applied. EPRO shall have no other liability, including liability for incidental or resultant damages, whether due to breach of warranty or negligence. This warranty may not be modified or extended by representatives of EPRO or its distributors.

Equipment

Mixing: Air/oil jacketed spray pump or jacketed hot melt kettle.

Application: HydroGel Application Gun, hot melt bucket, notched or smooth squeegee, roller, or metal trowel.

Technical Services and Information

Complete technical services and information are available by contacting EPRO at 800.882.1896 or www.eproinc.com.

This product was previously supplied by Kingfield Construction Products under the same name.



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Typical Physical Properties

Physical Property	Test Method	Value
Solids Content	ASTM D 1353	99%
Hardness	ASTM C 836-89	80
Resistance to Decay	ASTM E 154-88	0% moisture permeation and weight change
Peel Adhesion to Concrete	ASTM C 836; C 794	5.8 lbf/in (1015 N/m), Pass
Extensibility after Heat Aging	ASTM C 836; C 1522	1/4" (6.35 mm) No Cracking, Pass
Cold Temperature Crack Bridging	ASTM C 1305	Unaffected at -15°F (-26°C), Pass
Hydrostatic Pressure Resistance (max psi = 45)	ASTM C 1306	> 100 ft (31.64 m, 45 psi) (11 days duration)
Permeance to Water Vapor Transmission	ASTM E 96, Method B	0.016 perms (0.915 ng/(Pa*s*m ²))

Dimensions: 22"L x 14"W x 6"H (550mm x 350mm x 150mm)

Weight: 44 lbs (20 kg)