



WATERPROOFING

MiraPLY™-H

Description

MiraPLY-H is a nominal 55 mil horizontal grade, self-adhering, blindside waterproofing membrane that is a fully adhered composite comprised of a tough, durable and flexible TPO backing with a butyl alloy membrane/ adhesive. MiraPLY includes factory applied tape on one edge of the butyl alloy side of the membrane for ease of installation.

Typical Uses

MiraPLY-H is a nominal 55 mil horizontal grade, self-adhering, blindside waterproofing membrane that is a fully adhered composite comprised of a tough, durable and flexible TPO backing with a butyl alloy membrane/ adhesive. MiraPLY includes factory applied tape on one edge of the butyl alloy side of the membrane for ease of installation.

Features and Benefits

- Tremendous impermeability and excellent resistance to most chemicals (i.e., acids and bases)
- Effective Radon barrier
- Bridges cracks in concrete
- Flexible for ease of installation
- Fully bonds/adheres to concrete

Warnings and Hazards

- Protect membrane from torch welding or cutting slag
- Do not use spiked rebar chairs
- Do not leave exposed for more than 60 days
- Installation below 25°F require special tools and techniques. Consult Technical Services for details.
- Concrete forms must remain in place a minimum of 3 days after concrete is poured

Storage

Store in the original packaging until use. Protect from UV exposure and weather. Store between 40°F or above 100°F.

Packaging

4' x 50' (1.22 m x 15.24 m) rolls. Weight: 80 lbs (36 kg)

Typical Properties

Property	Method	Unit	Typical Value
TPO	—	mils (mm)	30 (.76)
Butyl Alloy	—	mils (mm)	25 (.64)
Thickness per ASTM D 5147 across sheet	ASTM D1970	mils (mm)	55 (1.40)
Water Vapor Transmission (Water Method) - With Seams	ASTM E96	perms	0.090
Tensile Strength ¹	ASTM D882	psi	1,220
300% Modulus ¹	ASTM D412	psi	1,470
90° T-Peel	ASTM D1876	pli.	>5.0
Elongation @ Break @ 23°C (Die C) ¹	ASTM D412	%	330
Flexibility Temperature @ -29°C (-20°F) ¹	ASTM D1970	pass/fail	No Cracking @ -29°C (-20°F)
Hydrostatic Pressure Resistance	ASTM D5385	ft.	>231 ft. (100 psi)
Lap Seam Peel 180° Peel	ASTM D903	lbs/in	23.5
Peel Strength Over Poured Concrete	ASTM D903	pli.	>5.0
Puncture Resistance Load at Puncture	ASTM E154	lb.	151.3
Tear Strength of Vulcanized Rubber and Thermoplastics Die C ¹	ASTM D624	psi	700
Soil Decay E 96 Testing Water Vapor Transmission	ASTM E154		Pass
Soil Decay Testing-Weight Loss	ASTM E154		Pass
Lateral Water Migration Resistance ²	ASTM D5385 modified		Pass at 100 psi (231 ft) of hydrostatic pressure

¹Data Listed according to Machine Direction criteria where applicable

²Lateral water migration resistance test is performed by casting concrete against butyl side of membrane with a hole and applying a hydrostatic head pressure with water. This test measures the resistance of lateral water migration between membrane and concrete.

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Limited Warranty

Carlisle Coatings & Waterproofing Incorporated (Carlisle) warrants this product to be free of defects in workmanship and materials only at the time of shipment from our factory. If any Carlisle materials prove to contain manufacturing defects that substantially affect their performance, Carlisle will, at its option, replace the materials or refund its purchase price. This limited warranty is the only warranty extended by Carlisle with respect to its materials. There are no other warranties, including the implied warranties of merchantability and fitness for a particular purpose. Carlisle specifically disclaims liability for any incidental, consequential, or other damages, including but not limited to, loss of profits or damages to a structure or its contents, arising under any theory of law whatsoever. The dollar value of Carlisle's liability and buyer's remedy under this limited warranty shall not exceed the purchase price of the Carlisle material in question.