



TECHNICAL DATA SHEET MiraPLY™-V

Vertical Grade, Self-Adhering, Blindside Waterproofing

Physical Property	Typical Value	Test Method
TPO Thickness	45 mils (1.14 mm)	-
Butyl Alloy Thickness	25 mils (0.64 mm)	
Thickness per ASTM D 5147 across sheet	70 mils (1.78 mm)	ASTM D1970
Water Vapor Transmission (Water Method)	0.090 perms	ASTM E96
Tensile Strength ¹	1500 psi	ASTM D882
300% Modulus ¹	±10% psi	ASTM D412
Lap Seam T-Peel (90°)	>5.0 pli	ASTM D1876
Elongation @ Break @ 23°C (Die C) ¹	500%	ASTM D412
Flexibility Temperature @ -29°C (-20°F) ¹	No Cracking @ -29°C (-20°F)	ASTM D1970
Hydrostatic Pressure Resistance	>231 ft. (100 psi)	ASTM D5385
Peel Strength Over Poured Concrete	>5.0 pli	ASTM D903
Puncture Resistance Load at Puncture	300 lb.	ASTM E154
Tear Strength of Vulcanized Rubber and Thermoplastics Die C ¹	250 psi	ASTM D624
Soil Decay E 96 Testing Water Vapor Transmission	Pass	ASTM E154
Soil Decay Testing- Weight Loss	Pass	ASTM E154
Lateral Water Migration Resistance ²	Pass at 100 psi (231 ft) of hydrostatic pressure	ASTM D5385 modified

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.

Description

Henry MiraPLY™-V with SeamLOCK™ technology is a nominal, 70 mil vertical grade, self-adhering, blindside waterproofing membrane. This membrane is a fully adhered composite comprised of a tough, durable and flexible 45-mil reinforced TPO backing with a 25-mil butyl alloy membrane/adhesive. Henry MiraPLY™-V is designed for waterproofing of below ground structural concrete surfaces under continuous or intermittent hydrostatic pressure.

Features & Benefits

- Seals around fasteners
- 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
- City of L.A. Approval: RR 25934

Application

Typical Uses: MiraPLY-V with SeamLOCK™ technology self-adhering blindside waterproofing membrane is designed for waterproofing zero property line applications against soil retention systems.

MiraPLY-V Installation: Start the installation at one corner of the building. Unroll the first sheet of **MiraPLY-V** with SeamLOCK™ Technology and install it square/parallel to building wall centered in the corner with the TPO side facing the **MiraDRAIN** attached to the soil retention system (lagging, sheet pile, shotcrete, etc.) and the adhesive/release liner facing out. Mechanically fasten the membrane vertically, use fasteners with washer heads that are compatible with the substrate. Ensure **MiraPLY-V** with SeamLOCK™ Technology is not bridging or wrinkled and tight to the corner with no seams in the corner. Install an adequate number of fasteners across the top of the **MiraPLY-V** with SeamLOCK™ Technology to support and keep the membrane tight against the substrate without wrinkles and blousing until concrete is poured. Walls higher than 8'-0" require fasteners in the field of the **MiraPLY-V** with SeamLOCK™ Technology membrane as necessary to keep membrane tight to wall without wrinkles and blousing (not including fasteners at the perimeter). Fasten perimeter edges of **MiraPLY** approximately 12" on center and a minimum of 6" from the edge. Caution – over driven fasteners can cause stress in the membrane and seams. Unroll the next sheet of **MiraPLY-V** with SeamLOCK™ Technology and align parallel to and overlap the preceding roll of **MiraPLY-V** with SeamLOCK™ Technology 3" and a minimum 3" end overlap. Stagger end laps. Ensure that the membrane lays flat and no openings are visible. At side laps, simultaneously remove the release liner on the factory applied tape and pre-primed strip mating the two sheets together. At end laps, remove release liner at seam area and apply **MiraPLY** Seam Tape positioned in the lap area. Lap area shall be rolled with a hard rubber roller using firm hand pressure. Leave plastic release liner on **MiraPLY-V** with SeamLOCK™ Technology until ready for concrete pour or placement of rebar. Cover fasteners with a 6" x 6" piece of **MiraPLY Seam Tape** or **MiraPLY Detail Tape**.

MiraPLY Repair: Inspect the **MiraPLY-V** with SeamLOCK™ Technology membranes for damaged areas before placement of rebar or concrete. The membrane should be cleaned with a cloth dampened with Weathered Membrane Cleaner and then allowed to dry. Repair slices, cuts and small punctures (½" or less) with **MiraPLY Detail Tape**. Repair larger areas with a piece of **MiraPLY** extending beyond damaged areas by approximately 6" in all directions. Remove release liner of **MiraPLY** extending beyond the perimeter of the repair patch, then position patch on damaged area. Roll patch with a hard rubber roller using firm hand pressure.

Concrete Placement: Henry recommends that the concrete should be installed within 60 days of membrane installation. For shotcrete placement, refer to Technical Bulletin "MiraPLY Waterproofing – Use with Shotcrete Foundation Walls" for more information.

Warnings and Hazards

- Protect membrane from torch welding or cutting slag
- 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 and 100°F.

Packaging

Available in 4 ft x 50 ft (1.22 m x 15.24 m) rolls. Weight: 83 lbs (37.65 kg)

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