



PreTak



Product Description

Basic Use: PreTak is utilized as a pre-applied sheet membrane for blindside vertical wall waterproofing and pre-applied under slab waterproofing and methane gas protection. PreTak is suitable for a variety of critical building envelope applications, challenging water table site conditions, and contaminated soils. PreTak is comprised of a high density polyethylene (HDPE) sheet that once installed provides a tough and durable chemical resistant waterproofing, methane, and contaminated soils barrier membrane. Combined with a high performance pressure sensitive adhesive (PSA), PreTak fully adheres to freshly placed concrete and shotcrete, preventing lateral water migration, water intrusion, and soil gas ingress.

Installation is efficient and reliable with PreTak HydroLap™ dual adhesive seams that create an impermeable adhesive-to-adhesive bond at sheet overlaps, even in wet conditions. PreTak delivers superior application performance in real-world, wet job site conditions, improving productivity.

PreTak meets the required standards for waterproofing, shotcrete and gas/methane barrier applications of the Los Angeles Building Code (IAPMO ER #944).

Composition: PreTak (46 mil/1.2mm thick) is a fully adhered waterproofing sheet membrane comprised of a multi-functional resin HDPE evenly coated with a pressure sensitive adhesive gel (PSA). HydroLap™ ultra-hydrophobic acrylic seam adhesive is applied along the top and bottom edges of the roll and marked with a seam line designating even sheet overlap.

Heat Welding - PreTak HW: For heat welding applications, PreTak HW is produced with exposed HDPE seam edges along the outer 3-inches (75 mm) of both sides of the roll. PreTak HW's HDPE resin allows for an even and consistent heat weld using standard heat welding equipment and techniques.

Benefits

- Easily applied, HydroLap™ seams adhere in wet conditions and exhibit exceptional bond strength after application.
- Chemical resistant HDPE mitigates the ingress of VOC vapors including trichloroethylene & tetrachloroethylene (TCE/PCE), common gases on impacted building sites.
- Not affected by rain or ponding water over the membrane.
- Does not require compaction or hydration, and will not wash out if exposed to below grade water movement.
- HDPE membrane is highly puncture resistant, durable to rebar placement, shotcrete, and typical job site traffic.
- Pressure sensitive adhesive (PSA) prevents lateral water migration by forming a continuous bond to concrete.
- Wide width rolls (7'-10") reduces the number of seams in the installed system and improves productivity.

Limitations

- Not intended for double sided form walls.
- Seam tapes can only be applied to dry surfaces.
- Do not leave exposed for longer than 60 days, shorter duration for sustained temperatures above 90°F (32°C).
- Formwork should stay in place for a minimum of 7 days before removal to prevent displacement of the membrane.

Technical Data

Properties: See physical properties table.

Coverages, not including seam overlaps:

- PreTak (HW) — Standard Roll: 386 square feet (36 m²)
- PreTak (HW) — Wide Roll: 516 square feet (48 m²)

Storage and Handling: Store raised off the floor away from sun and moisture, between 40-90°F (5-32°C), maximum 5 rolls high.

Specification Writer: Contact EPRO before writing specifications on this product. PreTak HDPE Pre-Applied Waterproofing System should be reviewed in order to meet project specific site conditions.

Installation

Preparation: Refer to manufacturer's specifications for substrate requirements. Rolls should be inspected for physical damage prior to application.

Application: Refer to manufacturer's specifications for application guidelines. Side laps, end laps, and cut ends have several seaming options depending on the application.

Installation: Roll PreTak out with the PSA facing the concrete pour. Line up the sheet overlaps to the factory-marked seam line and overlap cut ends and end laps a minimum of 3-inches (75 mm) for taped seams. Remove release liners while applying direct pressure to the seam overlap and roll to adhere.



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Availability and Packaging

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

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.

TYPICAL PHYSICAL PROPERTIES

Physical Property	Test Method	Value
Material		HDPE
Color		White
Thickness	ASTM D 3767	46 mil (1.2 mm)
Tensile Strength, Film	ASTM D 412	4742 psi (32.7 MPa) Force
Puncture Resistance	ASTM E 154	276 lbs (1227 N)
Elongation	ASTM D 412	722%
Low Temperature Flexibility	ASTM D 1970	Unaffected at -20°F (-29°C)
Water Vapor Transmission	ASTM E 96, method B	0.087 perms (4.97 ng/(Pa x s x m ²))
Hydrostatic Pressure Resistance	ASTM D 5385	231 ft (100 psi 71 m)
Resistance to Lateral Water Migration	ASTM D 5385	Pass at 231 ft (71 m) of HH pressure
Resistance to Hydrostatic Head	ASTM D 751	715 ft (310 psi 218 m)
Peel Adhesion to Concrete	ASTM D 903	23 lbs/in. (4028 N/m)
PreTak: Bonded Seam Strength	ASTM D 882	80 lbf
PreTak: Lap Peel Adhesion	ASTM D 1876	17.3 lbs/in. (3030 N/m)
PreTak HW: Bonded Seam Strength	ASTM D 6392	Pass (Break in Sheet)
PreTak HW: Dead Load Seam Strength	ASTM D 751	Pass
Radon Diffusion Rate	ISO/TS 11665-13(a)	1.7 x 10 ⁻¹² m ² /sec
Benzene Diffusion Rate		2.8 x 10 ⁻¹⁷ m ² /sec (tested >380 days)
PCE Diffusion Rate		4.7 x 10 ⁻¹⁵ m ² /sec (tested >180 days)
Methane Permeability (≤ 40.0 mL (STP)/m ² ·day·atm)*	ASTM D 1434	Pass @ 25 mL (STP)/m ² ·day·atm
Environmental Stress Cracking (>500hrs)*	ASTM D 1693	Pass
Heat Resistance*	ASTM D 4068	Pass (Break in Sheet)
Microorganism Resistance (Soil Burial)*	ASTM D 4068	Pass (Break in Sheet)
Oil Resistance*	ASTM D 543	Pass (Break in Sheet)

*Tested to City of Los Angeles Department of Building and Safety Methane Testing Criteria per IAPMO EC047

IAPMO UES Evaluation Report #944

LABC | Approved for Methane

LABC | Approved for Shotcrete

LABC | Approved for Waterproofing



Dimensions:

- PreTak — Standard: 3'-11" x 98'-5" (1.2 m x 30 m) | Wide: 7'-10" x 65'-6" (2.4 m x 20 m)
- PreTak HW — Standard: 3'-11" x 98'-5" (1.2 m x 30 m) | Wide: 7'-10" x 65'-6" (2.4 m x 20 m)

Weight:

- PreTak — Standard: 112 lbs (51 kg) | Wide: 150 lbs (68 kg)
- PreTak HW — Standard: 112 lbs (51 kg) | Wide: 150 lbs (68 kg)

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Equipment

- Seaming: 4" heavy seam roller, seam probe, utility knife
- Detailing: 2" heavy seam roller with a V-roller, utility knife
- Cold Weather Application: Hot air heat gun
- Heat Welding: 2" heavy seam roller with penny roller, 4" heavy seam roller, seam probe, knife, hot air heat gun, extrusion welder, automatic wedge welder, walk-behind welding machine, etc.

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 formally known as Pre-tak by Kingfield Construction Products.