PreTak



Product Description

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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 adhesiveto-adhesive bond at sheet overlaps, even in wet conditions. PreTak delivers superior performance in real-world, wet job site conditions, reducing extensive substrate preparation.

PreTak is approved for waterproofing, shotcrete and gas/ methane barrier applications by LADBS (LARR #26164).

Composition: PreTak (46 mil/1.2mm thick) is a fully adhered sheet membrane comprised of a multi-functional resin HDPE membrane evenly coated with a PSA gel and protected by a clear plastic release liner. HydroLap[™] seam adhesive is applied along the top and bottom edges of the roll and is marked with a seam line designating optimal 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.

Please contact your EPRO representative for more information.

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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 by 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 inplace 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 Standard Roll: 385 square feet (36 m²)
- PreTak Wide Roll: 516 square feet (48 m²)

Special Order Heat Weldable Rolls:

- PreTak HW Standard Roll: 385 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 $40-90^{\circ}F$ (5- $32^{\circ}C$), maximum 5 rolls high.

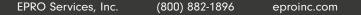
Specification Writer: Contact EPRO before writing specifications on this product. PreTak HDPE Pre-Applied Waterproofing System should be reviewed in order to meet project specific site conditions.

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 release liner 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 appling direct pressure to the seam overlap and roll to adhere.







PreTak

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.

Equipment

- Seaming: 4" heavy seam roller, seam probe, knife
- Detailing: 2" heavy seam roller with a penny roller, 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.

Typical Physical Properties

Physical Property

Material		HDPE
Color		White
Thickness	ASTM D 3767	46 mil (1.2 mm)
Tensile Strength, Film	ΔSTM D 412	4742 psi (32.7 MPa) Force
Puncture Resistance	ASTM E 154	276 lbs (1227 N)
Elongation	ASTM D 412	722%
Longation Low Temperature Flexibility	ΛςτΜ D 1070	Lingfocted at 20°E (22°C)
Water Vapor Transmission	ASTM E 96 mothod P	$\frac{0.087}{0.087} \text{ porms} (4.07 \text{ pg}//\text{Pg} \times s \times m^2))$
Hydrostatic Pressure Resistance		271 ft (100 point 71 m)
Resistance to Lateral Water Migration	ASTM D 5385	Pass at 251 ft (71 m) of HH pressure
Resistance to Hydrostatic Head Peel Adhesion to Concrete	ASIM D 751	\dots 7 15 ft (5 10 psi 2 18 m)
	ASTM D 903	25 IDS/IN. (4028 N/M)
PreTak: Bonded Seam Strength	ASIM D 882	80 lbf
PreTak: Lap Peel Adhesion	ASIM D 18/6	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
Panzona Diffusion Data		$2.9 \times 10^{-17} m^2/cocc (tootod > 790 days)$
Benzene Diffusion Rate PCE Diffusion Rate		$4.7 \times 10^{-15} \text{ m}^2/\text{sec}$ (tested >100 ddys)
Methane Permeability (≤ 40.0 mL (STP)/m ² ·day·atm)*		$\frac{4.7 \times 10^{10} \text{ m}^2 \text{ sec}}{100 \text{ m}^2 \text{ sec}}$ (lested >100 ddys)
$\frac{1}{1000} = \frac{1}{1000} = 1$	ACTM D 1434	
Environmental Stress Cracking (>500hrs)*	ASTM D 1093	Pass
Heat Resistance*	ASIM D 4068	Pass (Break in Sheet)
Microorganism Resistance (Soil Burial)*	ASTM D 4068	Pass (Break in Sheet)
Oil Resistance*		

*Tested to City of Los Angeles Department of Building and Safety Methane Testing Criteria.

Dimensions:

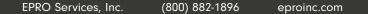
- PreTak Standard: 3'-11" x 98'-5" (1.2 m x 30 m) | Wide: 7'-10" x 65'-6" (2.4 m x 20 m)
- PreTak HW Standard: 3'-11" x 98'-5" (1.2 m x 30 m) | Wide: 7'-10" x 65'-6" (2.4 m x 20 m)

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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LADBS | LARR (#26164) - Approved for Methane PreTak: Yes...... PreTak HW: Yes LADBS | LARR (#26164) - Approved for Shotcrete PreTak: Yes...... PreTak HW: Yes LADBS | LARR (#26164) - Approved for Waterproofing....... PreTak: Yes...... PreTak: Yes PreTak HW: Yes