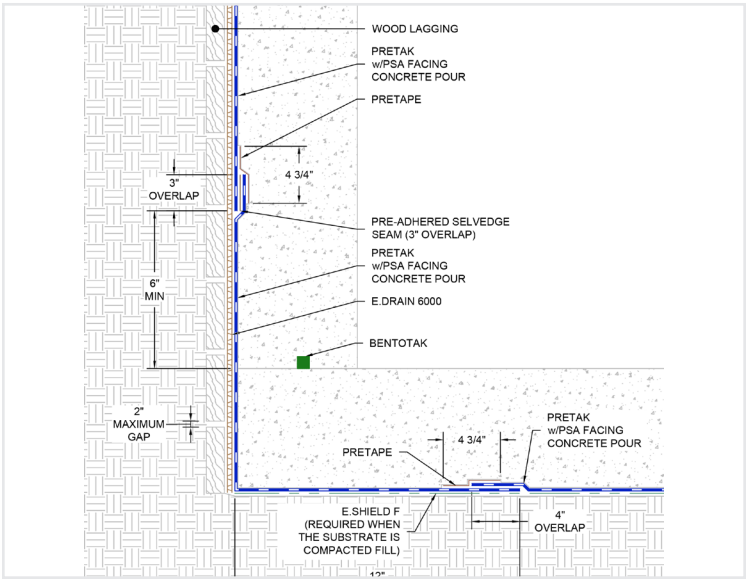
System Overview - PreTak



System: PreTak | **Former System Name: Pre-tak Pre-Applied Sheet (by Kingfield CP)**

Application: Underslab, Split slab, Shoring Walls, Tunnels, Walls | **System Thickness: 46 mils**

	1st Layer	2nd Layer	3rd Layer
Product Name	PreTak	PreTape / PreTape D	e.drain 6000
Former Name	Pre-tak	Pre-tak Tape / Pre-tak Tape DS	K-Drain 400

DESCRIPTION

PreTak is utilized as a pre-applied sheet membrane for blindside vertical wall waterproofing and pre-applied underslab waterproofing and methane gas protection for horizontal applications. PreTak can be applied directly to a wide variety of substrates and utilizes high density polyethylene (HDPE) sheet that once installed provides a tough and durable waterproofing membrane. Combined with a Pressure Sensitive Adhesive (PSA), PreTak becomes fully adhered when freshly placed concrete or shotcrete is applied to directly to it, eliminating the potential for lateral water migration.

Installation is efficient and reliable with a manufacturer marked adhesive selvedge allowing for an watertight bond at seam overlaps. PreTak delivers superior performance in harsh conditions without the need for specialized equipment, heat, or power.

For heat welding applications, PreTak may be special ordered without pre-adhered selvedge along both sides of the roll for faster heat welding. PreTape is used to apply a PSA surface over the heat welded seams to eliminate lateral water migration. Please contact your EPRO representative for more information.

Utilizing heat welded seams, PreTak is LADBS-approved as a gas and methane barrier (LARR #26164) and for shotcrete.

PreTak is compatible with most zero lot line, shoring, and support of excavation (SOE) system and can be applied over compacted native soils, compacted gravel base (<1”), and ratslabs.

SYSTEM COMPONENTS

- PreTak - 46-mil heat weldable HDPE+PSA membrane with or without preadhered adhesive seams.
- PreTape - Single-sided adhesive seam tape backed with PSA.
- PreTape D - Double-sided adhesive tape
- PM Sealant - STPE gunnable detailing sealant
- XT1 TG - Trowelable 2-part urethane detailing mastic
- e.stop gu - Gunnable urethane hydrophilic waterstop
- BentoTak - Ponding water-resistant bentonite waterstop encased in a water-activated adhesive film
- e.drain 6000 - High strength and high volume drainage composite

BENEFITS

- Proven and effective, PreTak has an over 25-year successful track record of performance on projects around the world.
- PreTak is suitable for a variety of critical building envelope applications, challenging site conditions, and contaminated soils.
- Not affected by rain or ponding water.
- Surpasses other fully adhered HDPE membrane systems by achieving the ideal blend between value and performance.
- Prevents lateral water migration by forming a continuous adhesive bond to poured-in-place concrete.
- Versatile seam options for hydrostatic, non-hydrostatic, and shotcrete applications.

LIMITATIONS

- Limited to underslab and single-sided formwork.
- A minimum of 3" (75 mm) of liquid concrete required to activate PSA surface.
- Do not leave exposed for longer than 60 days.
- Remove excessive substrate moisture prior to application.

WARRANTY

EPRO provides a wide range of warranty options for EPRO systems. For a project to be eligible for any warranty option beyond a 1-year material warranty, an EPRO Authorized Applicator must be used and the project must be registered and approved by EPRO prior to the commencement of any product application.

Warranty options available for this system include:

- Material warranty
- E.Series Labor and Material Warranty
- E.Assurance No-Dollar-Limit Warranty

For information relating to EPRO's E.Assurance warranty program, contact EPRO. All E.Assurance no-dollar-limit labor and material warranties are approved on a project by project basis. E.Asssurance warranties are available for deck applications when EPRO systems are used on the below-grade envelope.

SPECIFICATIONS, DRAWINGS, AND TECHNICAL ASSISTANCE

The most current specifications and drawings can be found on www.eproinc.com. For project specific details contact EPRO directly, or the local EPRO representative.

Site conditions, performance goals, and budget determine which system is more appropriate for a given project. For more information regarding product performance, testing, plan review, or general technical assistance, please contact EPRO.

Typical Physical Properties

Physical Property	Test Method	Value
Material		HDPE
Color		White
Thickness		46 Mil
Resistance to Hydrostatic Head	ASTM D 751	431 ft (131 m)
Tensile Strength, Film	ASTM D 412	4742 psi (32.7 MPa) Force
Elongation	ASTM D 412	722%
Puncture Resistance	ASTM E 154	276 lbs (1227 N)
Resistance to Lateral Water Migration	ASTM D 5385	Pass at 231 ft (71 m) of HH pressure
Peel Adhesion to Concrete	ASTM D 903	23 lbs/in. (4028 N/m)
Permeance to Water Vapor Transmission	ASTM E 96, method B	0.087 perms (4.97 ng/(Pa x s x m2))
Bonded Seam Strength (Heat Weld)	ASTM D 6392	Pass (Break in Sheet)
Dead Load Seam Strength (Heat Weld)*	ASTM D 751	Pass
Microorganism Resistance (Soil Burial)*	ASTM D 4068	Pass
Methane Permeability*	ASTM D 1434	Pass
Oil Resistance*	ASTM D 543	Pass
Heat Resistance*	ASTM D 4068	Pass
Environmental Stress Cracking*	ASTM D 1693	Pass

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

Dimensions:

- Standard: 3'-11" x 65'-6" (1.2 m x 20 m) - Wide: 7'-10" x 65'-6" (2.4 m x 20 m)
- Heat Weld: 3'-11" x 65'-6" (1.2 m x 20 m) - HW Wide: 7'-10" x 65'-6" (2.4 m x 20 m)

Weight:

- Standard: 75 lbs (34 kg) - Wide: 150 lbs (68 kg)
- Heat Weld: 75 lbs (34 kg) - HW Wide: 150 lbs (68 kg)