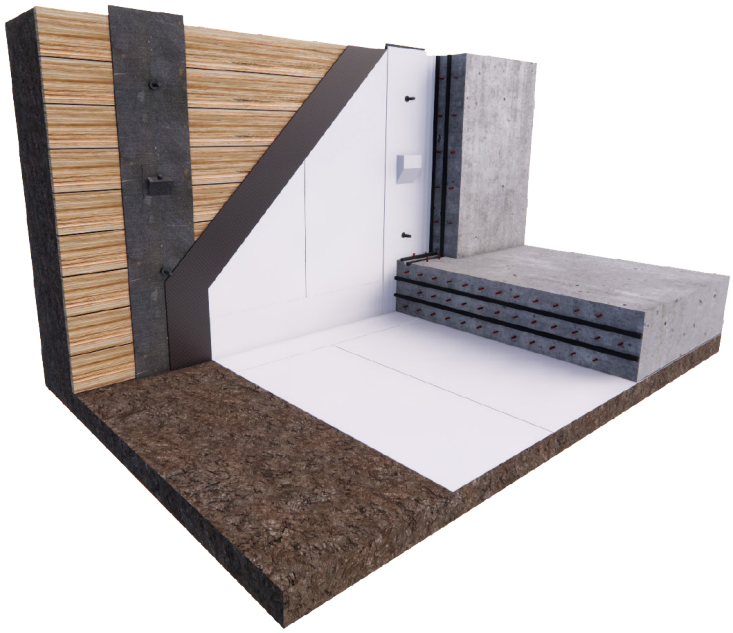

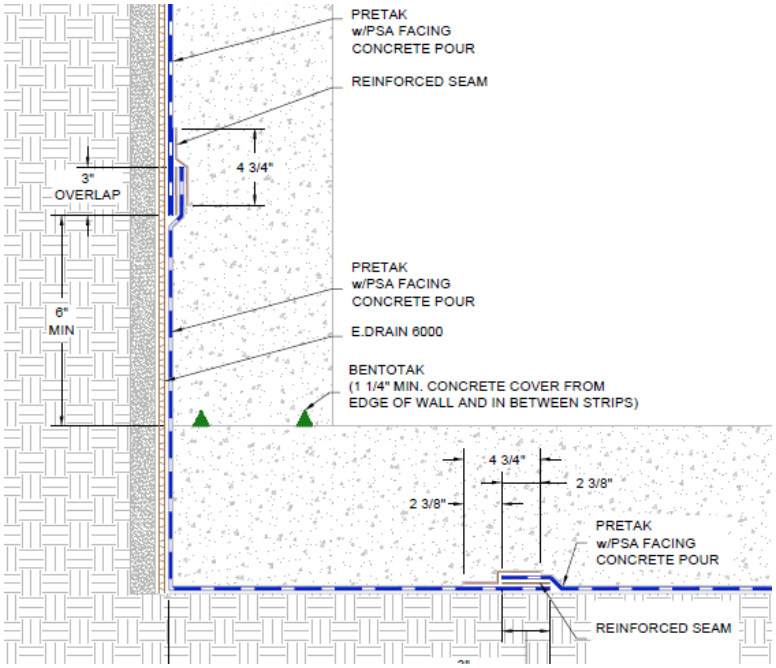

System: PreTak

Application: Pre-applied under slab and blindside waterproofing and gas protection | **System Thickness: 46 mils**

SYSTEM AT A GLANCE

Product	Description	Application	Dimensions
PreTak	HDPE sheet membrane with pressure sensitive adhesive and dual adhesive HydroLap™ selvedge.	Primary membrane	Standard: 3′-11″ x 98′-5″ - 387 SQF (1.2 m x 30 m - 36 SQM) Wide: 7′-10″ x 65′-6″ - 516 SQF (2.4 m x 20 m - 48 SQM)
PreTape	Single sided adhesive tape with pressure sensitive adhesive backing.	Detailing, seaming	4.7″ x 164′ (.12 m x 50 m)
PreTape D	Double sided adhesive tape	Detailing, seaming	3.15" x 164' (.08 m x 50 m)
PM Sealant	Silyl-terminated polyether (STPE) detailing sealant	Detailing	20 oz. sausage
e.stop gu	Hydrophilic urethane waterstop sealant	Waterstop	10.5 oz. cartridge
BentoTak	Hydrophilic self-adhesive waterstop strip	Waterstop	65' 7" (20 m)
e.cover tb	Pre-formed tie-back cover	Tieback cover	6", 8" and 10" depth
e.drain 6000	Drainage composite with filter fabric backing	Drainage, protection	Standard: 6′ x 50′ - 300 SQF (1.8 m x 15.25 m - 27.4 SQM) Wide: 8′ x 50′ - 400 SQF (2.4 m x 15.25 m - 37.1 SQM)

DESCRIPTION

The PreTak system is comprised of the PreTak membrane utilized as a pre-applied sheet membrane for blindside vertical wall waterproofing and pre-applied under slab waterproofing and methane gas protection. The PreTak system is suitable for a variety of critical building envelope applications, challenging water table site conditions, and contaminated soils. The PreTak system is comprised of the PreTak membrane, 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 or shotcrete, eliminating the potential for lateral water migration, water, or gas ingress.

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 on impacted building sites.
- Not affected by rain or ponding water and does not require compaction or hydration for proper function.
- HDPE membrane is highly puncture resistant, durable to rebar placement, shotcrete and typical job site trafficking.
- Pressure sensitive adhesive prevents lateral water migration by forming a continuous adhesive 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.
- Do not leave exposed for longer than 60 days, shorter duration for sustained temperatures above 90°F (32°C).
- Formwork should not be stripped prior to 7 days to prevent displacement of the membrane or spalling.

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.

WARRANTY

EPRO Services, Inc. believes to the best of its knowledge that performance tables are accurate and reliable. EPRO warrants this system to be free from defects. EPRO makes no other warranties with respect to this system, 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		46 Mil
PCE Diffusion Rate		4.7×10^{-15} m^2/sec (tested >180 days)
Benzene Diffusion Rate		2.8×10^{-17} m^2/sec (tested >380 days)
Resistance to Hydrostatic Head	ASTM D 751	715 ft (310 psi | 218 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 m^2))
Bonded Seam Strength (Factory Adhesive Seam)	ASTM D 882	80 lbf
Lap Peel Adhesion (Factory Adhesive Seam)	ASTM D 1876	17.3 lbs/in. (3030 N/m)
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 (Break in Sheet)
Methane Permeability*	ASTM D 1434	Pass
Oil Resistance*	ASTM D 543	Pass (Break in Sheet)
Heat Resistance*	ASTM D 4068	Pass (Break in Sheet)
Environmental Stress Cracking (>500hrs)*	ASTM D 1693	Pass

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

LADBS | LARR (#26164) - Approved for Shotcrete	**Yes**
LADBS | LARR (#26164) - Approved for Waterproofing	**Yes**
LADBS | LARR (#26164) - Approved for Methane	**Yes**

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