

# FLEXIDINE HDPE PSR

High Performance, Flexible High-Density with pre-applied adhesive Polyethylene (HDPE) Sheet with release liner

Product # 114.69  
Version no: 16.11.23

data  
Tech

**PRODUCT DESCRIPTION:** Flexidine HDPE PSR is a high performance, flexible High-Density Polyethylene (HDPE) sheet with pre-applied pressure sensitive adhesive and release liner on one side, manufactured & supplied in specified thickness, designed for underground basement waterproofing and other building structures. Flexidine HDPE PSR membrane is modified for excellent puncture resistance and mechanical properties to withstand backfill and cuts, while maintaining its integrity and continuing to provide protection from water seepage. The sheets are pre-applied with pressure sensitive adhesive and release liner for quick installation. The pressure sensitive layer allows poured concrete to form an integral bond with the membrane and holds the membrane in place if settlement of substrate occurs. As the mass of the structural concrete increases during the concrete pour, the adhesive is activated and forms a continuous bond with the concrete poured against it. The release liner applied is easy to remove and apply the membrane on the substrate making the installation work quick. The laps are sealed with a seam tape as required. Flexidine HDPE PSR membrane provides water & water vapour protection to water excluding structures and protects concrete from aggressive ground salts, chemicals and hydrocarbons. The sheets are available in white color in 1.2 mm thickness with 1.2 mtr width, complying to ASTM and EN standards.

## AREAS OF APPLICATION

- Basement waterproofing from bottom and side walls
- RCC Podiums
- Car Parks
- Roads and bridges
- Canals, subways, tunnels & underpasses
- Metro Stations

## ADVANTAGE

- Supplied in pre-manufactured standard thickness. No need to worry of thickness variation at site, unlike liquid applied systems.
- Outstanding puncture resistance, high breaking and tearing strength
- Eliminates water and vapor migration by forming a strong bond to the concrete structure with watertight laps.
- Chlorine free, plasticizer free, phthalate free. Environmentally friendly and safe for humans
- Exceptional resistance to bacteria, chemical, acid & slat corrosion
- No lateral water migration, limiting water ingress / leakage.
- Resistance to root penetration
- Continuous serviceability from -30°C to 100°C – without cracking, tearing or brittleness failure

## APPLICATION

### SURFACE PREPARATION

Cement bound surfaces must be dry, firm, offer good traction, free from loose particles, dust and dirt and additionally free of oil, grease and other impurities which can adversely affect uniform adhesion. If considered necessary, the surface should be mechanically prepared, flame scaled, milled or ground.

## APPLYING AND LAYING

The installation is simple. For horizontal surfaces, unroll the membranes and allow to rest at location for 30 mins – flattening the sheets out. Use seam tapes on the overlap of the membranes, along the length, press to adhere the 2 edges, securing the membranes in place. Verify the seam joint and ensure there are no open edges. For vertical surfaces, peel off the release liner, press the membrane onto the wall, which quickly adheres to the hardened substrate. Seams are overlapped and press joint.

## CLEAN UP

- Clean all tools immediately after use with Fibrex Paint Remover. Do not allow material to harden.

## TECHNICAL SPECIFICATIONS

Nominal Thickness   mm; ASTM D751	1.2 ±10%
Typical Weight   Kg/m <sup>2</sup>	1.08 ±10%
Breaking Strength   Kg/cm <sup>2</sup> ; MD/TD; ASTM D 412	250 Min 270 Typical
Elongation at Break   %, MD/TD; ASTM D 412	500 Min 570 Typical
Tearing Strength   Kg/cm; MD/TD; ASTM D 412	130
Puncture Resistance   Kg; ASTM D751	20
Brittleness Point   °C; ASTM D 2137	-30°C
Linear Dimensional Change   %; 6hrs @ 70°C; ASTM D 1204	0.1%

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# Tech Data

Weather Resistance   KJ/(m <sup>2</sup> .mm); ASTM G155	> 21,600
Water Vapour Permeance   Perms; ASTM E96, Procedure B	0.10 Max
<b>Coverage</b>	The dimensions of the membrane are calculated to cover the substrate, including seam overlaps Standard Seams: 75 mm; Seams with mechanical anchoring: 150 mm Upstands: additional length of 150mm
<b>Roll Details</b>	Thickness 1.2 (mm) Width (Mtr) 1.2 Length (Mtr) 20 Sq.mtr(Mtr <sup>2</sup> ) 24 Weight (Kgs) 26

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## PACKAGING

Flexidine HDPE PSR available in 1.2\*20 mtr roll with 1.2 mm thickness.

## STORAGE

Store Flexidine HDPE PSR membranes at temperatures between + 10° C and + 35° C and in dry, clean conditions and in their original, closed wrapping away from sources of chemical contamination, damage, ignition sources and open flame. Shelf life is beyond 5 years. Exercise caution when lifting, moving, transporting, storage & handling to avoid puncture and physical damage.

## NOTE

The information supplied in this datasheet is based upon extensive experience and is given in good faith in order to help you. Our company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.

## HEALTH AND SAFETY

This material is intended to be used by trained professionals with proper equipment's. The following safety measures are recommended:

- Wear protective gloves, clothing, goggles, hearing protection for noise reduction and hard hats for falling debris.
- Do not eat, drink or smoke while in active contact with these materials.
- Avoid skin contact.
- Wash hands thoroughly with soap and cool water.
- Never wash the skin with a solvent.
- Anyone experiencing difficulty breathing when working with these materials or showing an allergic reaction should seek fresh air immediately and consult a physician if symptoms persist.

## DISCLAIMER:

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