

FLEXIDINE HDPE PSA

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

Product # 114.68

Version no: 16.11.23

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Tech

PRODUCT DESCRIPTION: Flexidine HDPE PSA is a unique, high performance, flexible High-Density Polyethylene (HDPE) sheet with pre-applied pressure sensitive adhesive with a reactive inorganic fine granule layer. Flexidine HDPE PSA 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 sand layer to suit pre-applied construction methods. The membrane allows poured concrete to form an integral bond with the membrane and prevent ingress or migration of water around the structure. 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 membrane is a cold-and pre-applied waterproofing system that is installed as loosely laid, single-ply membranes onto prepared substrates before the steel reinforcement is fixed and the concrete is poured. The laps are sealed with a seam tape as required.

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 ± 0.10%
Typical Weight Kg/m ²	1.10 ± 0.10%
Tensile Strength MPa; ASTM D 412	24.52 Min 26.48 Typical
Elongation at Break %; ASTM D 412	500 Min 570 Typical
Tearing Strength Kg/cm; ASTM D 412	130
Puncture Resistance N; ASTM E154	1000
Brittleness Point °C; ASTM D 2137	-30°C
Linear Dimensional Change %; 6hrs @ 70°C; ASTM D 1204	1% max
Peel Adhesion to Concrete N/m; ASTM D903	1500 Min
Weather Resistance KJ/(m ² .mm); ASTM G155	> 21,600
Water Vapour Permeance Perms; ASTM E96, Procedure B	0.10 Max
Resistance to Hydrostatic Head m; ASTM D5385	71

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Coverage	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
Roll Details	Thickness 1.2 (mm) Width (Mtr) 1.2 Length (Mtr) 20 Sq.mtr(Mtr ²) 24 Weight (Kgs) 27

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 PSA is available in 1.2mx20m Rolls with 1.2mm thickness.

STORAGE

Store 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.

PRECAUTIONS

During mixing and application the following precautions should be observed: ensure adequate ventilation and avoid contact of the material with the eyes, nasal passages, mouth and unprotected skin. Avoid contact with the hands by wearing protective gloves and using, if necessary, a suitable barrier cream. In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice and after contact with the skin wash immediately with plenty of soap and water (do not use solvents). Prolonged contact with the skin should be avoided, especially where the user has an allergic reaction. Always wear gloves and eye/face protection as necessary.

Observe personal hygiene, particularly washing the hands after work has been completed or at any interruption whilst work is in progress. Care should be taken when removing gloves to avoid contaminating the insides. In case of accidents seek medical advice.

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:

Fibrex Construction Chemicals products though are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Fibrex Construction Chemicals wishes to clarify that any advice, recommendation, specification or information is accurate and correct, though it cannot, at any time assume any liability either directly or indirectly arising from the use of its products. This is because it has no direct or constant control over where or how its products are applied, and whether or not in accordance with the advice specification, recommendation or information given by it.

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