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HYDROBAND HP

High Performance Thermoplastic Membrane

DESCRIPTION

HYDROBAND HP is a thermoplastic membrane, available in a variety of widths, designed for the waterproofing of joints and cracks where a high level of movement is expected. The membrane is sealed to the substrate either side of the joint using EPONITE EP, the flexibility of the membrane allows irregular movement to a high degree whilst maintaining a watertight seal. HYDROBAND HP is available in two different thicknesses – 1mm thick membrane is suitable for joints that are lightly trafficked and expect low movement whilst 2mm is suitable where heavier traffic is expected and on all expansion joints.

USES

HYDROBAND HP is used in conjunction with EPONITE EP for waterproofing construction joints and expansion joints as well as waterproofing cracks and voids in concrete construction.

ADVANTAGES

- TPE Flexible Sealing Tape.
- No activation required.
- Impermeable to water even against negative pressure.
- Can be applied to matt damp substrates without priming.
- Resistant to frost, UV, and ageing.

Property	Value
Chemical Base of The Tape	Flexible TPE Based Polymer
Surface Structure	Even or textured surface
Tensile Strength Lateral	4.7 Mpa
Tensile Strength Longitudinal	4.8Mpa
Maximum Tensile Elongation Lateral	580%
Maximum Tensile Elongation Longitudinal	532%
Tear Resistance Lateral	48 N/mm^2
Tear Resistance Longitudinal	42 N/mm^2
Shore	70
Peel Strength	>20
Colour	Grey
Water Pressure Strength	>5
Service Temperature	-30°C +80°C
Density	1.400 gr/cm^2

STANDARD SIZES

Width	Value	Length
150mm	1 mm / 1.25 mm / 1.50 mm / 2 mm	25 meters
200mm	1 mm / 1.25 mm / 1.50 mm / 2 mm	25 meters
250mm	1 mm / 1.25 mm / 1.50 mm / 2 mm	25 meters
300mm	1 mm / 1.25 mm / 1.50 mm / 2 mm	25 meters
350mm	1 mm / 1.50 mm	25 meters
400mm	1 mm / 1.50 mm	25 meters

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PROCEDURE

Surface Preparation: Concrete surfaces must be free from all unsound material, i.e. Dust, oil, grease, corrosion by-products and organic growth. Concrete should have a minimum strength of 20 MPa and surfaces should be cleaned to remove release agents, curing agents and surface laitance, preferably using wet grit or water blasting techniques. Steel should be cleaned back to bright metal. Apply de-bonding tape centrally over the joint that is to be sealed and at the outer edges which the EPONITE EP will be applied (i.e. the width of the HYDROBAND HP plus 20mm)

Mixing: Mix the EPONITE EP in accordance with the appropriate Technical Datasheet.

Application: Apply the EPONITE EP to the prepared area using a trowel or suitable brush, working well into the substrate if it is damp. EPONITE EP should be applied between the two outer lines of de-bonding tape at a thickness of 1-2mm. Immediately upon the completion of application of the EPONITE EP the central line of de-bonding tape spanning the width of the joint to be removed. The HYDROBAND HP should then be embedded (with the pre-applied de-bonding tape facing up) into the freshly applied EPONITE EP and should be rolled using a suitable roller to remove any entrapped air and ensure maximum adhesion of the membrane. The EPONITE EP should then be left to stabilise before applying an overlay of EPONITE EP at a thickness of 1-2mm to completely encapsulate the membrane. Immediately, the centre tape and the external edge de-bonding tape should be removed to ensure neat edge detail.

Jointing: Lap Joints of HYDROBAND HP should be jointed using hot air thermal welding using an air gun. Membrane Laps should be a minimum of 50mm to ensure an integral seal is produced.

Equipment Cleaning: Tools should be cleaned immediately after use using PREMCRETE CLEANING SOLVENT.

Curing & Overcoating: Eponite EP will be hard dry following 10-12 hours of curing at 20°C. At higher temperatures, this period will be reduced and at lower temperatures this period will be increased. Allow 7 days for optimum mechanical properties and full chemical resistance.

PACKAGING & COVERAGE

Pack Size: 20m rolls.

STORAGE & SHELF LIFE

Store in dry conditions, out of direct sunlight. Protect from frost.

HEALTH & SAFETY

Avoid contact of material with eyes. Wear appropriate gloves, overalls, and eye protection during use. Wash off skin with soap and water. Any eye contamination must be rapidly irrigated with copious amounts of clean water and immediate medical attention sought.