

Estopper Hypatite

Elastomeric Membrane System for Expansion Joint Waterproofing

Description

Estopper Hypatite is a hypalon membrane for use in movement joint or crack in a structure to prevent ingress of water. It is bonded with Estobond Hypa, specially formulated adhesive.

Estopper Hypatite has been tested by SIRIM BHD, in accordance to ASTM D412, on the Elongation at Break and Tensile Strength and complied with the specification in this data sheet.

Uses

Estopper Hypatite is suitable for buried joints and over strapping joints in:

- Elevated structure such as car park decks, podium, walkways and balconies.
- Substructure such as basement, subways and tunnels.
- Water works applications.
- Waterproof membrane for bridge expansion joint system.

Advantages

- Able to accommodate 50 mm movement
- Tough and flexible joint flashing
- Ability to take cyclic movement
- Excellent resistance to weathering
- Performance not effected by extreme climate
- Can be joined by Estobond Hypa for continuity of long lengths
- Easy to install

Standards Compliance

- ASTM D412 : 2002

Physical Properties

Estopper Hypatite

Application Temperature, °C	5 to 50
Shore A Hardness @ 25°C	65
Tensile Strength, MPa ASTM D412	> 6.0
Elongation at Break,% ASTM D412	> 350
Movement Accommodation	100% of the de-bonded width

Estobond Hypa

Density (kg/litre)	1.7 – 1.8
Colour	Concrete Grey
Pot Life at 25°C	35 mins
Service Temperature BS 5075	100°C max
Gel Time at 25°C	1 hour
Adhesion Concrete Steel Hypatite	Excellent Good Excellent
Slump Resistance (max 25°C)	25 mm

Application Instructions

Width of Estopper Hypatite

Estopper Hypatite is supplied in standard widths 200 mm. It is for use in buried joints (Expansion, construction and contraction joint) in trafficked surfaces and bridge decks.

Surface Preparation

Substrate to receive Estopper Hypatite must be sound, dry, frost and dust free. New concrete must be fully cured and free from curing compound. The concrete surface ideally should be wood float finished and free from irregularities.

Any honeycombing must be repaired using suitable Estop patching mortar

Preparation of the membrane

Measure and cut the length of Estopper Hypatite and ensure that it is dry and clean from any oil, grease etc.

Mixing and application of the adhesive

Estobond Hypa adhesive is supplied in two parts.

Mix the whole pack thoroughly using a slow speed drill until uniform colour is achieved.

Apply the mixed Estobond Hypa on each side of the joint to a thickness of approximately 3mm. Place Estopper Hypatite on top of Estobond Hypa. Using a hard roller, force the Estopper Hypatite down into the Estobond Hypa until the material come out from the punched holes of Estopper Hypatite.

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Apply an additional 3mm layer of **Estobond Hypa** to hold the **Estopper Hypatite**. See Illustration 1 below. **Estobond Hypa** shall be applied at least 5mm wide, as per illustration below.

The membrane should be applied not more than 20 minutes after adhesive application and allowed to cure to ensure that the adhesive is not disturbed prior to laying of asphalt or other surfacing.

Joining the **Estopper Hypatite** membrane

Estopper Hypatite can be jointed by **Estobond Hypa**.

Packing & Size

Estopper Hypatite	1 mm (T) × 200 mm (W) × 20 m (L) per roll
Estobond Hypa	2 litre pack

Coverage

Estopper Hypatite	200 mm (W) × Any length
Estobond Hypa	3.0 m × 200 mm per 2 L pack

* Coverage may vary depending upon the regularity of the surface finish.

Technical Support

Estop offers a comprehensive range of high performance, high quality of product for both new and existing concrete surfaces. In addition, the company offers a technical support package to specifiers, end-users and contractors, as well as on site technical assistance.

Storage

Estobond Hypa should be stored in original unopened packaging in dry conditions under ambient room temperature. Under these conditions, the product will have a shelf life of 12 months. Shelf life may reduce if stored in extreme heat locations.

Precaution

Ensure adequate ventilation when applying **Estobond Hypa**. Wear impervious gloves and barrier cream if user is sensitive to resin system. Wear eye protection.

Additional Information

Estop manufactures and offers a wide range of complementary products, which includes waterstops, waterproofing products, grouts, anchors, specialized flooring products. In addition, a wide range of products formulated for repair and refurbishment of spalled concrete are available.

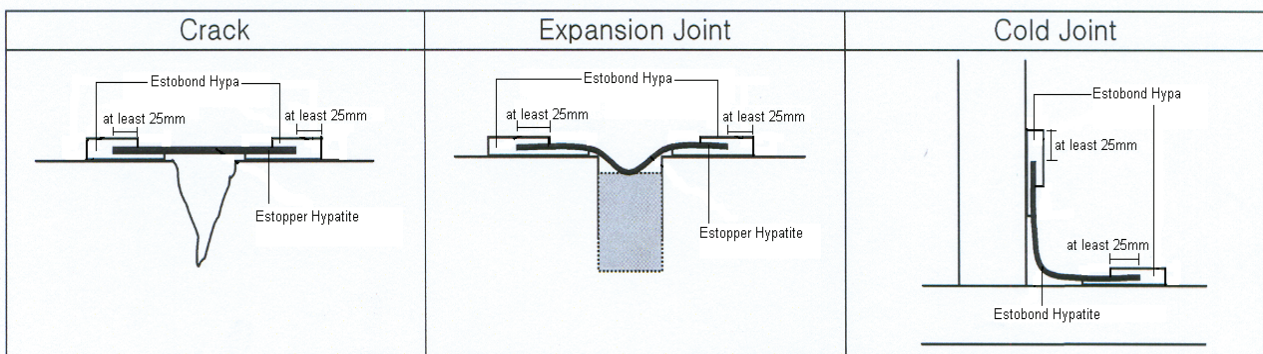


Illustration 1: Installation of Estopper Hypatite with Estobond Hypa.

Important Note

Estop products 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. Whilst Estop endeavors to ensure that any advice, recommendation, specification or information in may give is accurate and correct, it shall not, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation or information given by it.