TREMCO

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HypaFlex

Hypalon Sheeting Compound for Sealing Waterproof Expansion Joints

PRODUCT DESCRIPTION

Tremco HypaFlex is a combination sheet material, made from Hypalon elastomers and laminated to a high strength polyester reinforcing scrim.

USAGE/PURPOSE

Tremco HypaFlex is ideal for use with Tremco's TREMproof waterproofing membranes in sealing waterproof expansion joints, primarily in:

- ❑ Water retention tanks (OSD, Fire Suppression, Potable Water)
- ❑ Tunnels
- ❑ Reservoirs
- ❑ Swimming Pools
- ❑ Sewage Treatment Tanks
- ❑ Deck Expansion Joints

FEATURES & BENEFITS

- ❑ Green Star Compliant.
- ❑ Viable solution for joints that are not properly sized to use a traditional sealant bead.
- ❑ Fully encapsulated edges provide continuity in the waterproofing layer.

PACKAGING

Made to Order

- ❑ 200 mm (W) x 1 mm (D) x 25 m (L)
- ❑ 250 mm (W) x 2 mm (D) x 25 m (L)
- ❑ 300 mm (W) x 2 mm (D) x 25 m (L)

COLOURS

Grey

SHELF LIFE

36 months when stored as recommended in original unopened packaging.

STORAGE

Store in a dry cool place in original unopened packaging between 5 and 30°C.

LIMITATIONS

- ❑ Not suitable for direct traffic, a metal cover plate should be used to protect the HypaFlex from abrasion or physical damage.
- ❑ Must be chemical anchored using TREMcoat EPA (Epoxy Paste Adhesive).
- ❑ If the joint is subjected to hydrostatic water pressure, the HypaFlex bandage must be supported by a filler in the joint (Tremco Closed Cell Backing Rod & Sealant, Tremco Illmod 600, etc).

TYPICAL PHYSICAL PROPERTIES		
PROPERTY	**TEST METHOD**	**TYPICAL VALUES**
Tensile Strength	ASTM D751	1000 N
Elongation at Break (fabric)	ASTM D751	25%
Tear Resistance	ASTM D751	400 N
Low Temperature Flexibility @ -40°C	ASTM D2136	Pass - No cracking, Splitting or other deleterious effects

SURFACE PREPARATION

Ensure all surface preparation is in agreement with the TREMcoat EPA product data sheet requirements.

MEMBRANE APPLICATION

1. Remove backing tape from Tremco's HypaFlex.
2. Clean Tremco HypaFlex with a thorough wipe using Tremco Xylol.
3. Leave to dry for a minimum of 30 minutes, but clean no more HypaFlex than what can be installed in a single day.
4. Select the appropriate size HypaFlex to handle the necessary joint width (A), plus the expected movement (B), plus the 90 mm needed for the connection (C) to provide the necessary width of HypaFlex needed for the project.

   For Example:

   i. For a 100mm wide joint (A)
   ii. 50% expected movement, 100mm x 0.5 = 50mm (B)
   iii. Plus the 90mm overlap (C)
   iv. A + B + C = 250mm (W) Roll
5. Tremco recommends following industry best practice and cut a reglet into the concrete. This will allow the bandage to be both chemically as well as mechanically anchored to the substrate.
6. Mix Tremco's TREMcoat EPA (Epoxy Paste Adhesive) per the product data sheet requirements.
7. Apply a minimum 1 mm thick WFT x 40 mm wide ribbon of TREMcoat EPA to both sides of the joint face using a brush, roller or trowel.
8. Set the Tremco's HypaFlex bandage into the wet TREMcoat EPA and press slightly, ensuring that the edges of the bandage are fully encapsulated by the adhesive. Use of a floor laminate roller may help to ensure no voids or air bubbles are present.
9. To seal the end of one roll of Tremco's Hyapflex, to the beginning of the next roll, please do the following:
   a. Remove the backing tape from both rolls of the Tremco HypaFlex.
   b. Clean 100 mm of each roll of HyapFlex using Tremco Xylol.
   c. Allow any remaining cleaning solvent a minimum of 30 minutes to flash off.
   d. Using a hot air gun, press the cleaned sections together and ensure all air bubbles are avoided using a spatula or for laminate roller.
   e. Overcoat all overlap seams using Tremco's Dymonic 100 or TREMflex 50 polyurethane sealant.

CLEAN UP

- ❑ Clean all adjacent areas to remove any stains or spills with Tremco Xylol.
- ❑ Clean tools or equipment with, Tremco Xylol before materials cure.
- ❑ Clean hands by soaking in hot, soapy water, then brushing with a stiff-bristle brush.

TROUBLESHOOTING

This section describes common industry application issues when certain environmental conditions exist and their remedies. If any of these should occur, it is always recommended that you contact your local Tremco Representative.

1. When a deck contains too much moisture, the moisture may change into a vapor, which then condenses at the concrete-membrane interface before the coating has cured and may cause blisters or bubbles, ultimately interfering with proper adhesion. If this should occur, the blisters can be cut out, allowing moisture to escape. After moisture has escaped and the surface is dry, the area can be repaired.
2. If the coating application has been installed at a thickness that is greater than our installation instructions, pinholes, blisters or bubbles may develop in the coating. To avoid this occurrence, the material should be applied in accordance to the installation instructions.
3. If the coating is applied in very hot ambient temperatures, the air in the small spaces between the concrete particles increases in volume and forms blisters. Contact Tremco should this occur.
4. If the previous coating application has not fully cured, solvent may become trapped between the coats and lead to large blisters. When cut out, they may still be tacky on the underside. Blisters may be cut out and repaired after the surface has been allowed to fully dry.

WEATHER IMPACT ON COATING APPLICATION

This section discusses the impact of applying these coatings outside the ideal temperature application range of 18 to 30°C at 50% RH.

1. At temperatures lower than the ideal range, the material will become viscous and it will cure at a slower rate. Refer to the chart below for approximate cure rates at varying temperatures.
2. Storing materials at cooler or warmer temperatures than ideal, will affect the handling and curing characteristics of the materials.
3. Deck temperatures may affect cure rates even when ambient temperatures are high.
4. Enclosed areas may slow the cure rate of the coating because humidity levels tend to be low in these conditions due to the low exchange of air over the membrane.
5. In extremely dry conditions, even when temperatures are high, cure rates can still be extended.

Temperature at 50% RH	TREMcoat EPA (hours)
4.4°C to 12.8°C	18 to 72
12.8°C to 18.2°C	12 to 60
18.3°C to 29.4°C	8 to 48
29.4°C	4 to 24

Variations in temperature and humidity can affect the cure rate of the coating. The above chart should be used as a guide only to determine the approximate rate of cure. Other factors can also influence the cure rate such as substrate temperature and enclosed environments. For more information about proper application procedures please refer to the Installation Instructions or contact Technical Services.

HEALTH & SAFETY PRECAUTIONS

The Safety Data Sheet (SDS) must be read and understood prior to use.

TECHNICAL SERVICE

TREMCO has a team of Representatives who provide assistance in the selection and specification of products. For more detailed information or service and advice, call Customer Service on (02) 9638 2755.

GUARANTEE/WARRANTY

TREMCO products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with TREMCO written instructions and (b) in any application recommended by TREMCO, but which is proved to be defective, will be replaced free of charge.

Any information provided by TREMCO in this document in relation to TREMCO's goods or their use is given in good faith and is believed by TREMCO to be appropriate and reliable. However, the information is provided as a guide only, as the actual use and application will vary with application conditions which are beyond our control. TREMCO makes no representation, guarantee or warranty relating to the accuracy or reliability of the information and assumes no obligation or liability in connection with the information. To the extent permitted by law, all warranties, expressed or implied are excluded.

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