

# Tremco THC 900 & 901

## High performance trafficable joint sealants

### Key Benefits Summary

- Dual Grades:** pouring grade THC 900 and slope grade THC 901
- Unique Colour Pak System:** Colour Paks supplied to any BS4800/Ral colour for on site mixing.
- Translucent Polymer Resin:** Standard base ensures uniformity of performance throughout the colour range.
- Wide Movement Accommodation:** Movement Accommodation Factor of 25%.
- High Abrasion Resistance:** Designed for trafficability and flexibility.
- Exceptional Weather Properties.**
- Standards:** US Fed Spec TT-S-00227E. Meets ASTM C92 0-87. TypeM, GradeP, Class25, Use T, M, O.

### Product Description:

THC 900 & THC 901 are multi-component, high performance joint sealants which on thorough mixing provide trafficable, durable seals in dynamically moving joints.

### Usage/Purpose:

Trafficable expansion, control and construction joints. THC 900 should be limited to joints with a 5% slope or less in warehouse floors, intermediate car park decks and other areas subject to foot and vehicular traffic. For joints with slopes up to 10% or cross joints in ramps use THC 901. For non-trafficked joints use Dymaric.

### Limitations:

Not designed for prolonged submersion or constant spillage of harsh chemicals.

### Colours:

A standard range of stable architectural colours is available, plus a colour matching facility at our laboratories for any BS 4800/RAL colour.

### Packaging:

THC 900 & 901 are available in 6 litre units.

### Ancillary Equipment:

Bulk caulking guns, follower plates and mixing paddles are available direct from Tremco.

### Composition:

THC 900 & 901 are multi component, chemically curing polyurethane joint sealants.

### Performance: (Typical values)

Cyclical movement (ISO 9047): No failure at  $\pm 25\%$  on primed mortar.  
 Elastic recovery (ISO 7389): Greater than 90%  
 Stress when extended to 250% (ISO 8339): 0.35-0.50 N/mm<sup>2</sup>.  
 Shore 'A' hardness (ASTM D2240): 25 - 35  
 Trafficking (at + 21°C): Foot/Vehicular: 24hrs/72hrs (longer at lower temps).

### Usage Guidelines:

#### Joint Design Considerations:

- Joint design should be in accordance with BS 6093.
- For the purpose of joint width calculations in BS 6093, the MAF of THC 900 & 901 is 25%.
- For optimum performance, the width to depth ratio should be 2:1 subject to a minimum sealant dimension size of 10mm x 10mm.
- A maximum depth of 15mm should be maintained for joint widths of 30mm or more.
- Sealant depth should never be greater than width.
- Wide gaps of 40mm or more will require support or protection. Contact Equus for advice.

#### Surface Preparation:

- Loose friable material should be removed and arrisses made good.
- Joint faces should be clean, dry, clear of dust and free from substances likely to impair adhesion eg. Waterproofing, form release and curing agents.
- Joint faces should be ground or sand blasted to expose clean, sound substrate prior to priming, even if saw cutting has been performed.

#### Sealant Backing:

Install smooth faced, closed cell polyethylene or neoprene foam under 30% - 35% compression.

Sealant backing is installed to:

- Prevent sealant adhesion to the joint pocket rear.
- Control the depth of the sealant.
- Provide a firm base for tooling THC 901.
- Prevent escape of THC 900 through the joint.

Where the joint depth is insufficient to allow the use of foam, polyethylene or silicone faced self adhesive bond breaker tape should be used. When using THC 900, ensure a good seal between substrate and bond breaker tape to prevent 'escape' of sealant through the joint.

#### Priming:

- For applications to concrete, use Tremco Primer No. 4, a 2 part primer that requires mixing prior to use. Use masking tape where appropriate. Keep temperature above + 10°C for at least 24 hours.
- For other substrates consult Equus.
- Field adhesion testing is recommended before commencement of main installation.

**Mixing:**

- Add curative and a Colour Pak tint to the THC base and mix into the top few centimetres of the base.
- The base container should be held stationary while the contents are thoroughly mixed using slow vertical and circular motions with a Tremco approved mixing paddle powered by a slow speed drill (250-400rpm).
- After 5 minutes mixing, the paddle and can sides should be scraped clean returning the material to the centre of the can. Continue mixing for a further 2 minutes. The use of higher drill speeds and some shaped paddles can whip unwanted, excessive amounts of air into sealants.

**Method Of Application:**

- THC 901 can be loaded into conventional caulking guns using a Tremco follower plate. Apply THC 900 from a suitable spouted container.
- Application should be in accordance with the BASA/CIRIA publication "Manual of Good Practice in Sealant Application".
- THC should be applied at temperatures above +5°C to finish 2 or 3mm below floor level.
- All beads of THC should be tooled after application to ensure full firm contact with the joint faces.

**Coverage Rate Table:**

(Approximate Linear Metres per Litre)

Width:	10mm	15mm	30mm	50mm
Depth:				
10mm (min)	10.0	6.7	-	-
15mm	-	-	2.2	1.3

**Cleaning:**

Clean equipment with Tremco Brush Cleaner.

**Health & Safety Precautions:**

Product Health and Safety Data Sheet must be read and understood before use.

**Storage:**

Store in dry conditions, in original unopened containers, between +5°C and 25°C .

**Shelf Life:**

12 months when stores as recommended.

**Guarantee/Warranty:**

Tremco products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with Tremco, but which is proved to be defective, will be replaced free of charge. No liability can be accepted for the information provided in this leaflet although it is published in good faith and believed to be correct.

Tremco Limited reserves the right to alter product specifications without prior notice, in line with Company policy of continuous development and improvement.

**Equus Industries Ltd**  
**PO Box 601**  
**Blenheim**  
**Phone: 03 578 0214 Fax 03 578 0919**  
**Email: admin@equus.co.nz**