TREMflex 50

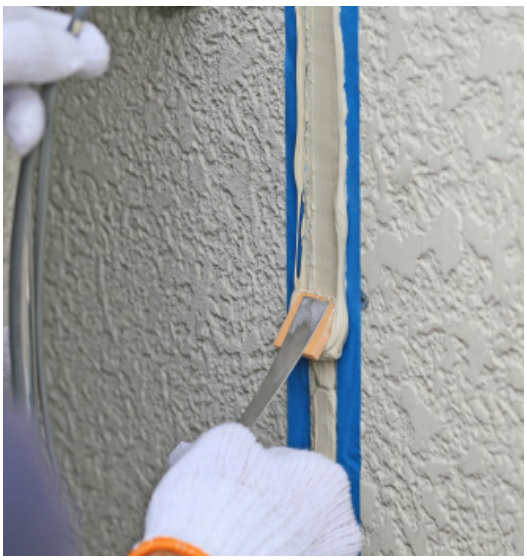
One Part, High Movement, Easy to Gun, Polyurethane Joint Sealant

www.tremco.com.au

DESCRIPTION

TREMflex 50 is a low modulus joint sealant, especially formulated to ensure bubble free cure even at very high temperatures and humidity climatic conditions.

It cures by reaction with atmospheric humidity to produce a joint sealant with a 50% joint movement accommodation factor. The sealant guns and tools consistently well at even the most extreme temperatures.



USAGE/PURPOSE

TREMflex 50 can be used for sealing joints in:

- ❑ Under waterproofing membranes
- ❑ Cast In Place concrete
- ❑ Precast panels
- ❑ Brick & block work
- ❑ Metal

FEATURES & BENEFITS

- ❑ No bubbling/swelling upon curing in difficult climatic conditions.
- ❑ Green Star Compliant
- ❑ Excellent adhesion on a wide variety of substrates without priming necessary.
- ❑ Excellent extrusion, tooling & storage stability over wide range of climatic conditions.
- ❑ Good chemical resistance.
- ❑ Low modulus, joint movement accommodation +/- 50%.
- ❑ Microorganism & fungus resistant.
- ❑ Excellent heat resistance, suitable for application where exposure to temperatures >60°C take place.
- ❑ Resistance to cold: The sealant remains elastic even down to -40°C.

PACKAGING

600ml Sausages - 15 per box

COLOURS - AUSTRALIAN STANDARD AS 2700

Light Grey - N35

Black - N61

SHELF LIFE/STORAGE

12 months when stored in original undamaged packaging in a clean, dry, protected location with temperatures between 5°C and 25°C.

SPECIFICATION CLAUSE

Joint Sealant is specified as a low modulus joint sealant especially formulated to ensure bubble free cure even at very high temperatures with +50/-50 percent joint movement capabilities.

TYPICAL PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	TYPICAL VALUES
Accelerated Weathering	2000hrs-QUV-B	Passed
Hardness (Shore A)	ASTM D2240	27
Elongation at Break	ASTM D412	700%
Joint Movement	ASTM C920	+/-50
Tack Free Time	25°C 50% RH	2 hours
Cure Time	25°C 50% RH	2-3mm per day
Service Temperature		-40 to 80°C
Chemical Resistance	>10 days	Potassium Hydroxide (Potash), Hydrochloric

LIMITATIONS

TREMflex 50 is not recommended for:

- ❑ Use on glass, natural rubbers such as EPDM, PVC or TPO.
- ❑ Use on bitumen will result in discolouration.
- ❑ Allow to fully cure prior to installation of nearby silicones.

TREMflex 50

SUBSTRATE PREPARATION

- ❑ All surfaces must be clean, dry, sound & free from dust, oil, rust or any other contamination.
- ❑ Metal & glass should be cleaned with Tremco Xylol. Solvent should be wiped from the surface with a clean, dry cloth.
- ❑ For plastics contact the manufacturer for a recommended cleaning solvent.
- ❑ When used on remedial work all existing sealant must be removed.

PRIMING

TREMflex 50 bonds tenaciously without the assistance of a primer, however some substrates will require primer to develop adhesion. In the event primer is needed, use the following:

- ❑ For Porous Substrates: Vulkem 171 Primer.
- ❑ For Non Porous Substrates: TREMprime Non-Porous Primer.

JOINT DESIGN CONSIDERATIONS

Joint width should be 4 times anticipated movement, but not less than 6mm wide.

SEALANT BACKING

Closed cell polyethylene backing rod is recommended for horizontal joints to provide correct joint depth to width ratio, as well we prevent 3 sided adhesion. Open cell backing rod is recommended for vertical installation to allow for faster curing.

METHOD OF APPLICATION

- ❑ Surface must be clean, dry & free from loose material.
- ❑ Slide the sealant into the applicator gun, cut off the very end of sealant packaging and fit the gun with the nozzle that has been cut to deliver the right bead size.
- ❑ Extrude the sealant into the joint, ensuring that no air is trapped in the joint.
- ❑ Tooling is recommended immediately after the application of sealant.

COVERAGE RATE

(Approximate Linear Metres per 600ml Sausage)

DEPTH	WIDTH				
	5mm	10mm	15mm	20mm	25mm
5mm	24m	12m	-	-	-
10mm	-	-	4m	3m	2.4m
15mm	-	-	-	-	1.6m

- ❑ FILLET JOINTS TRIANGULAR CROSS SECTION
  6mm x 6mm = 16
  10mm x 10mm = 6

CLEAN UP

Tooling is recommended immediately after application to ensure firm, intimate contact with the joint interface. Dry tooling is preferred. Cleaning can be accomplished with solvents such as Tremco Xylol while sealant is in an uncured state.

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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