

CI/SfB	Yt4
CAW P22	
Uniclass L6751:P7112	
April 2011	

KEY BENEFITS SUMMARY

- Excellent resistance to weathering, ageing - performance not affected by UV exposure
- Easy to use: Single component and rapid curing, with no primer required in most applications
- Can be overpainted
- Ideal for sealing joints up to +/- 25%. Conforms to ISO 11600-G-25HM

PRODUCT INFORMATION

Description

Tremco PU540 is a one part, high modulus, polyurethane based elastomeric sealant with excellent bonding capabilities.

Usage / Purpose

FOR CONSTRUCTION APPLICATIONS

Tremco PU540 is designed for use in:

- perimeter seals
- trafficable floor joints

FOR INDUSTRIAL APPLICATIONS

Tremco 540 is suitable for sealing and bonding a wide variety of materials including:

- metals and enamelled substrates
- wood
- GRP
- many plastics

Typical applications include bonding and sealing in:

- marine and vehicle applications
- caravans and motor-homes
- portable buildings
- container manufacture
- bus and train carriages

LIMITATIONS

The product is NOT recommended for:-

- materials where migration of constituents can take place (eg. certain rubbers)
 - prolonged immersion in water.
- NOTE: White may discolour under prolonged UK exposure.

Colours

White, black and grey.

Packaging

310 ml cartridges (12 per carton)
600 ml sausages (20 per carton, grey only)

Availability

Direct from Tremco illbruck (see back of leaflet for address and telephone details) or via local and national distributors.

USAGE GUIDELINES

Joint Design Considerations

- Joints should be designed in accordance with BS 6093.
- For the purposes of joint width calculation in BS 6093 the MAF of Tremco PU540 is +/- 25%.
- For optimum performance, the width to depth ratio of PU540 should be 2:1 subject to a minimum depth of 10 mm on porous substrates and 6 mm on non-porous substrates.
- Sealant width should never be less than sealant depth.
- For fillet joints the minimum bite onto each surface should be 10 mm for porous substrates and 6 mm for non-porous substrates.

Preparation

- Joint faces should ideally be clean, dry, sound and free from grease and any other contaminants likely to impair adhesion.
- Loose friable material must be removed and arrisses made good.
- Tremco PU540 is non-staining on a number of different substrates. If in doubt, contact Tremco illbruck Technical Services.
- Application to damp surfaces is possible but should not be attempted without first consulting with a Tremco illbruck Technical Sales Representative. Tremco PU540 is NOT recommended for prolonged immersion in water.
- Install smooth faced, closed cell polyethylene foam rod under 20% - 30% compression.
- Where joint depth is insufficient to allow the use of a polyethylene foam rod, a silicone faced self-adhesive bond breaker tape should be used.

Priming

Tremco PU540 provides excellent unprimed adhesion to most common building substrates, however, based on the results of in-house testing, a primer may be recommended for certain installations/applications.

Application

- Application should be in accordance with BS 8000:16 - "Code of practice for sealing joints in buildings using sealants".
- Apply between +5°C and +40°C.
- All beads should be tooled after application to ensure firm, full contact with the joint faces.

TECHNICAL INFORMATION

	Method	Result
Composition		One part moisture curing polyurethane
Specific Gravity		1.17
Consistency	Boeing Jig	Non-sag
Skin Forming Time	at +23°C, 50% RH	< 4 hours
Cure Rate	at +23°C, 50% RH	3 mm / 24 hours
Ultimate Elongation	ISO 8339	> 600%
Modulus qt 100 %	ISO 8339	0.4 MPa
Hardness (Shore A)		40
Elastic Recovery	ISO 7389	70%
Service Temperature Range		-30°C to +80°C
Movement Capability	ISO 9047	+/- 25%

Coverage Rate

(Approximate Linear Metres per 310 ml cartridge)

WIDTH 6 mm 10 mm 20 mm 25 mm

DEPTH (min)

6 mm	8.6	5.2	-	-
10 mm	-	3.1	1.5	
12 mm	-	-	-	1.0

Cleaning

Immediately remove excess sealant and smears adjacent to the joint (use masking tape where appropriate). Equipment may be cleaned with Tremco AW421 Industrial Cleaner while sealant is in an uncured state. Cured sealant can only be removed mechanically.

Storage

Store in dry conditions between +5°C and +25°C. The storage temperature should not exceed +25°C for extended periods of time. Keep away from heat sources.

Shelf Life

9 months when stored in its original unopened packaging.

Health & Safety Precautions

Product and Safety Data Sheets must be read and understood before use.

Technical Service

Tremco illbruck has a team of experienced Technical Sales Representatives who provide assistance in the selection and specification of products. For more detailed information, service and advice, please call Customer Services on 01942 251400.

Guarantee / Warranty

Tremco illbruck products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with Tremco illbruck written instructions and (b) in any application recommended by Tremco illbruck, 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 illbruck Limited reserves the right to alter product specifications without prior notice, in line with Company policy of continuous development and improvement.