

CI/SFB
CAW
Uniclass

## Description

TW200 is a pre-compressed, self-expanding open micro-cell polyurethane foam impregnated with a hydrophobic, acrylic polymer sealing compound coated with a factory-applied traffic grade silicone sealant. It is designed to provide a watertight, dust-proof, airtight, noise-reducing, thermally insulating, and UV stable primary seal that does not require invasive mechanical fixing for installation.

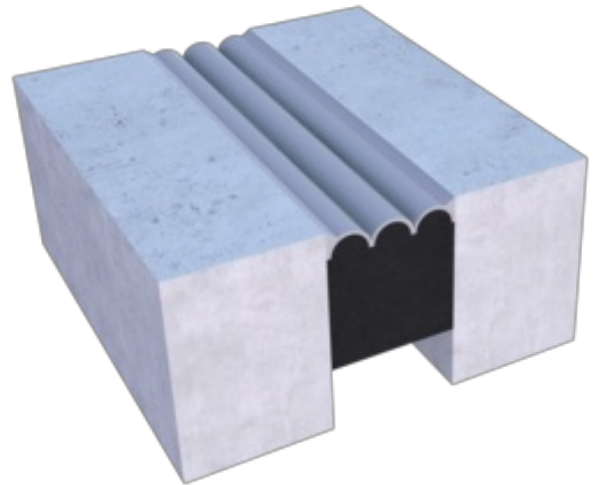
## Packaging

Joint width (mm)	Joint depth (mm)
13	51
16	51
20	51
25	51
32	51
38	51
45	51
51	76
57	76
64	76
70	76
76	76

Larger sizes of TW250 are available, details upon request.

## Technical data

Property	Test Method	Result
UV resistance	DIN 18542	Pass
Ultimate elongation	N/A	Exceeds rated maximum extension without tension
Surface temperature range	ASTM C711	-40°C to +87.7°C
Silicone elongation	N/A	Never under tension and exceeds maximum movement range (>1000%)
Silicone flexibility	N/A	Excellent
Resistance to compression set	Full cycle tested in an environmental chamber through the stated temperature stability range	No bleeding when compressed to minimum of claimed movement of normal size and when simultaneously heated to 87.7°C for 3 hours.
Compression set	Full cycle tested in an environmental chamber through the stated temperature stability range	Will not delaminate due to thermal shock or compression set
Temperature stability range		-40°C to +80°C
Ideal storage temperature		20°C
Shelf life		6 months



## TW200

### Willseal 250

Typically used as an external joint sealant, engineered to perform in horizontal applications subject to solvents and fuels such as those found in multi storey car parks. The following are acceptable applications for TW200 :

- Multi Storey car parks (Fully compatible with Deckshield coating systems)
- Goods inward/Loading bays
- Elevated walkways and Balconies (Fully compatible with Vulkem Quick membrane systems)
- Link bridges
- Stadia

### Benefits

- Allows for up to 100% ( $\pm 50\%$ ) movement accommodates rapid rates of joint movement.
- Easy and quick installation, fast turnaround, facilities back in use in shorter time scale.
- Supplied in pre-compressed state for ease of installation
- Utilises Epoxy adhesive technology so no invasive anchoring required.
- Monolithic construction, robust and no unbonded laminations.

## Preparation

- Verify that the joint is clean, sound, and will provide an appropriate surface for installation of the joint sealant.
- Clean any loose debris from the joint in the structure.
- Apply water or alcohol to a clean cloth and wipe the joint walls to the depth of the sealant material plus 25 mm.
- Verify that the joint is uniform and repair any spalls prior to installation.
- Check the material for appropriate length, width, and depth.
- Supplied material should be pre-compressed to a size smaller than the intended joint opening.
- Joint depth must allow for the installed material to be recessed 6 mm from the substrate surface.

## Usage Guidelines

### Application procedure

- When fully prepared to install, apply a 2 - 3 mm coating of the epoxy mixture to both joint walls using a suitable margin trowel to a depth of the TW200 plus 10 mm (Fig. 1).
- The epoxy must still be wet upon installation of TW200. The working time for epoxy is approximately 30-45 minutes depending on the temperature.
- If the epoxy hardens on the surface of the substrate before installation, another coat of epoxy can be applied within 2 hours. After 2 hours, the substrate surface must be abraded to eliminate the amine blush that occurs during the final cure
- Cut the shrink packaging along the edge of the MDF support boards (Fig. 2).
- Verify that the material is cut square at both ends for proper seams; all pieces must be square to the termination point.
- Pay attention to the direction of insertion marked on the packaging
- Be prepared to install the material immediately once the packaging is removed to prevent the material from expanding past the joint width
- Initially, position Willseal 250 just above the deck surface, once the material is partially expanded in the joint it can then be installed to the required depth 6mm below the surface of the joint using a putty knife or margin trowel (Fig. 3).
- Make sure not to pull, twist or stretch the Willseal 250 during the installation process.

### Method For Forming Butt Joints

- Verify that the new piece of material is cut square and not at an angle to the previous piece installed
- Apply FA880 sealant to the end of the new piece of material (Fig. 4).
- Do not apply FA880 sealant to the faces of the product that are in contact with the epoxy adhesive.
- Overlap extra material (approximately 15-25mm) at butt joint to ensure that the joint is in compression after installation (Fig. 5).
- Make sure the ends are flush against each other and then push the pieces together (Fig. 6).
- Butt join all "T" and "+" intersections (Fig. 7).
- Apply FA880 sealant over joints and intersections.

### Applying Sealant To Joint Edges

- Wipe off and remove any excess Epoxy adhesive and FA880 sealant.
- Apply a continuous bead of FA880 sealant along both edges and tool off to form a neat fillet between the Willseal 250 and the deck edges as shown below (Fig. 8).
- Remove any excess sealant and masking duct tape to complete the installation.

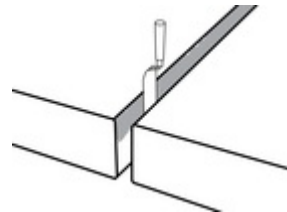


Fig. 1

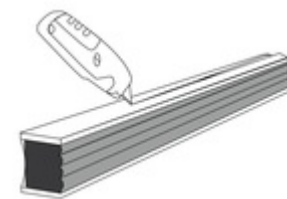


Fig. 2

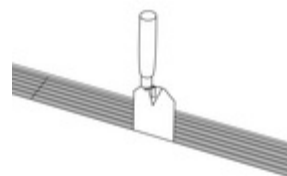


Fig. 3

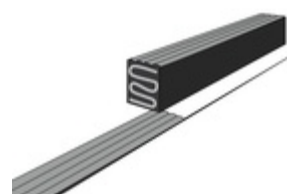


Fig. 4



Fig. 5



Fig. 6

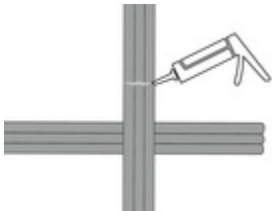


Fig. 7

#### Please Note

- Only Use Epoxy adhesive and illbruck sealant supplied with your TW200 order.
- Installation temperature at least 5°C and rising during the installation process to a maximum of 30°C.
- High temperatures accelerate the products expansion during installation, while low temperatures delay this.
- Avoid contact of TW200 with hydrocarbon solvents, solvent based paints, and corrosive chemicals.
- TW200 will not adhere to surfaces contaminated by oil or grease. Concrete should clean, dry & sound.
- Store material in a dry, enclosed area, off the ground, and out of direct sunlight at 20°C minimum.
- Not suitable for joints continuously submerged in water.
- Joints in roofing applications or areas with occupied space below

For more detailed information on the Installation of the TW200 please refer to our installation guide. Health & Safety Precautions. Safety data sheet must be read and understood before use.

#### Additional Note

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#### Technical Service

tremco illbruck has a team of experienced Technical Service Representatives who provide assistance in the selection and specification of products. For more detailed information, service and advice, please call Customer Service 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 Ltd. reserves the right to alter product specifications without prior notice, in line with Company policy of continuous development and improvement.



**tremco illbruck Limited**  
Coupland Road, Hindley Green  
WN2 4HT Wigan  
United Kingdom  
T: +44 1942 251400  
F: +44 1942 251410

uk.info@tremco-illbruck.com  
www.tremco-illbruck.co.uk