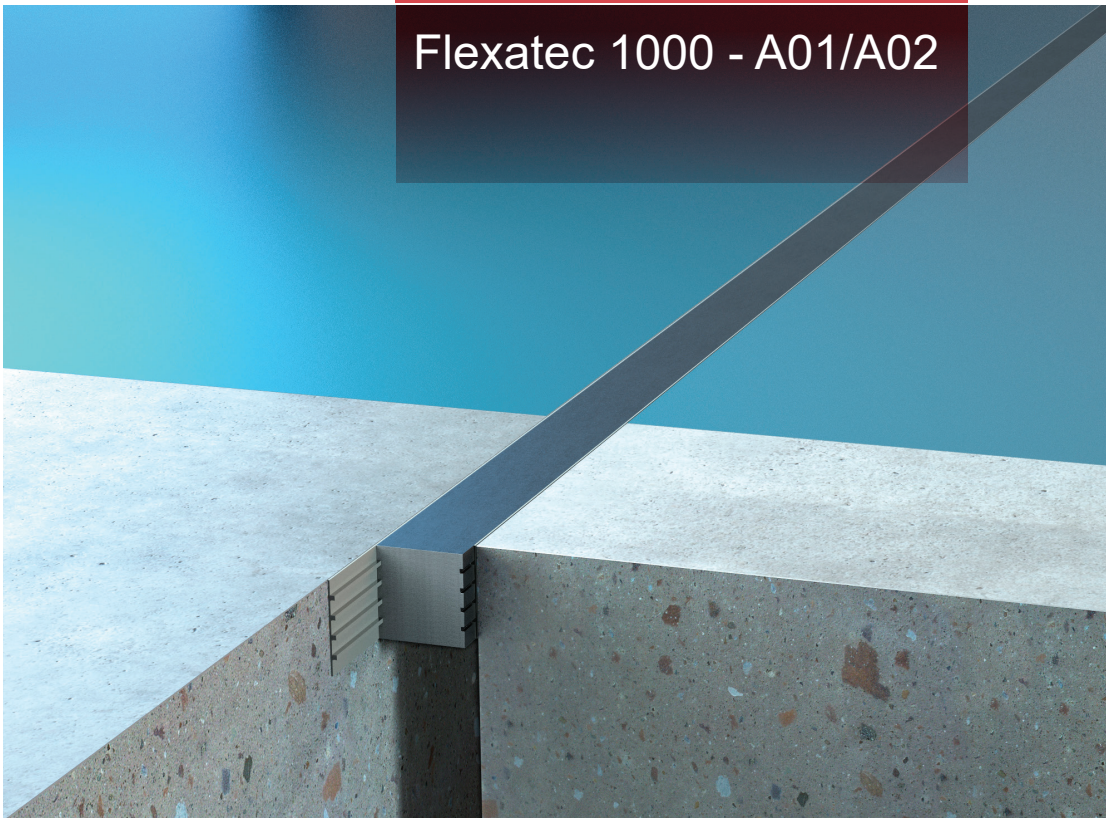
Method Statement

Flexatec 1000 - A01/A02



VEXCOLT

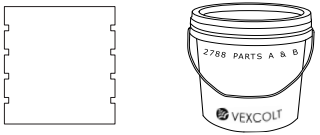
Ref. 01
Date of issue. 22.01.20

VEXCOLT

Contents

Assembly Contents :

A01

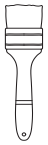


Flexatec 1000
Qty. 1

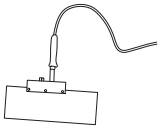
Flexafix
Part 'A' and 'B'
Qty. Varies

Fitting Hardware :

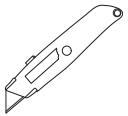
Metal Measuring Tape



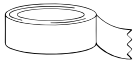
Brush



Teflon Heating Iron



Stanley Knife



Floor tape

Jiffy Paddle Mixer

or

Drill

Jiffy Paddle

Before You Start :

- Ideally a team of four people will install the Flexatec joint - two applying the Flexafix to the substrate and the joint, and the other two installing the joint into the structural gap.
- Remove joint components from the packaging taking care not to damage exposed surfaces of the profile material.
- Verify that structural gap and block out dimensions are in conformance with submittal data prior to commencing work.

Product Details

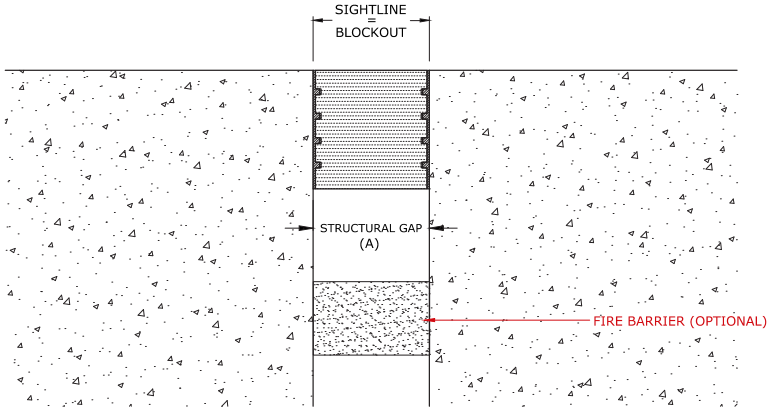
Product Number	Structural Gap A (mm)	Uncompressed Width (mm)
1000-A01-020	20	25
1000-A01-025	25	32
1000-A01-030	30	38
1000-A01-038	38	45
1000-A01-050	50	64
1000-A01-075	75	95
1000-A01-090	90	111
1000-A01-100	100	127

- The Flexatec 1000 should be 25% wider than the recess into which it is to be affixed.

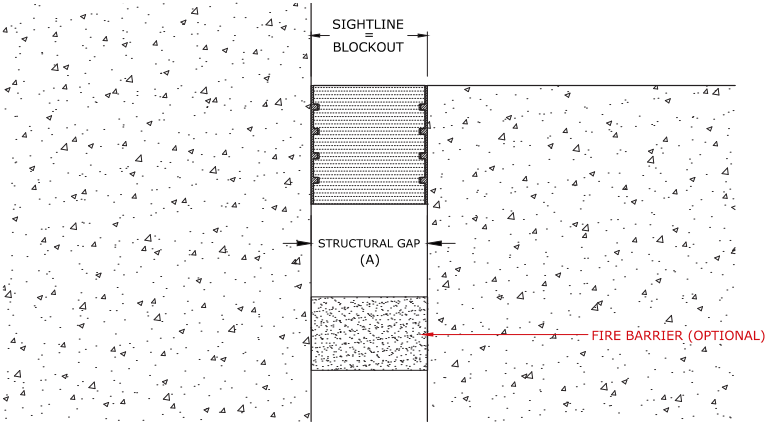
Preparation :

- Ensure that the floor is flat and levelled and debris free.
- The fire barrier must be installed in the structural gap before any architectural joint system is installed above.
  Refer to separate method statement.

Flexatec 1000 : A01



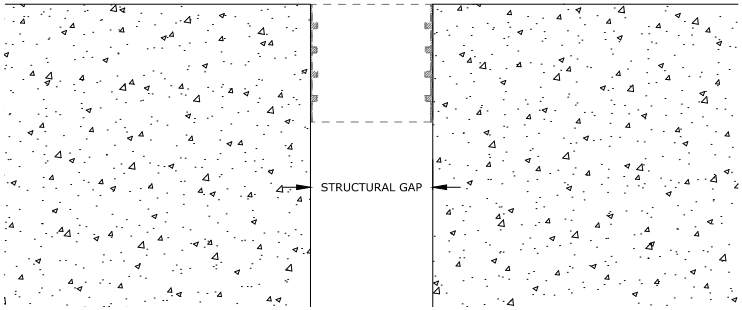
Flexatec 1000 : A02



Surface Preparation

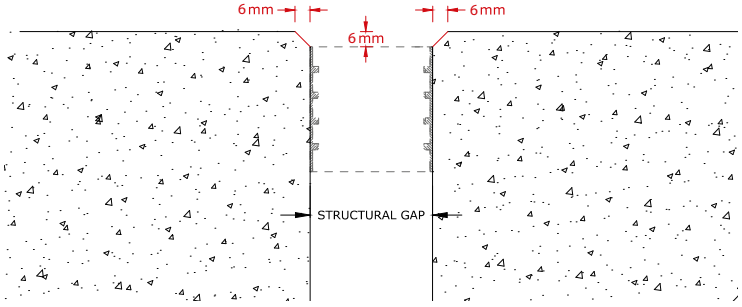
90° Angle

- Standard installation where no spalling of the nosing is anticipated.



Chamfer

- If the Flexatec is being installed in a situation where it is a concern that the edges of the concrete nosings are friable and likely to spall, then a 6mm x 6mm chamfer to these edges should be considered.



- The joint must be installed in dry conditions, between 10-25°C; ensuring that the joint remains dry and within this temperature range until fully cured.
- Clean all concrete surfaces that will be in direct contact with the joint seal either by grit blasting or with a mechanical brush. Blow any dirt or debris from the joint openings and joint surfaces with oil free compressed air.

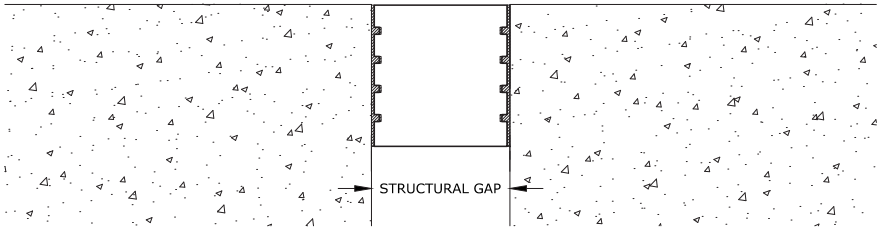
Waterproofing with Flexatec 1000

- The Flexatec 1000 is often used as a waterproofing layer in expansion joint gaps that move and non-moving gaps and voids.

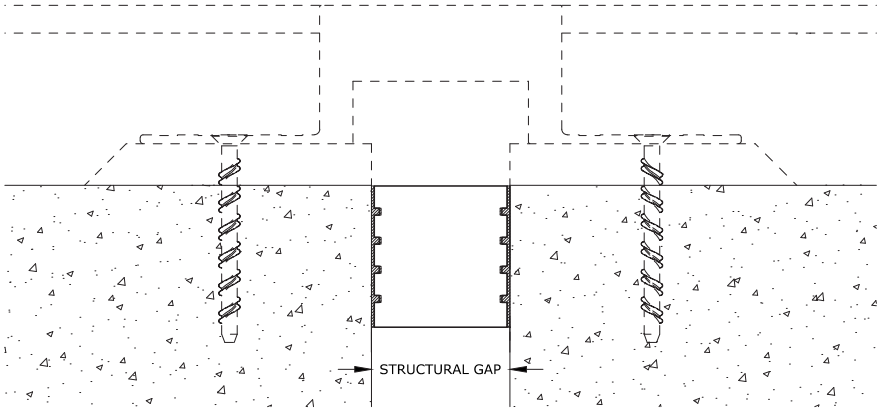
  As it is a deep closed-cell system, it provides superior waterproofing compared to thin membranes which can be damaged by construction and other traffic.

- The Flexatec 1000 is often installed beneath expansion joint areas to provide a high - integrity waterproofing barrier.

Installed without an expansion joint above



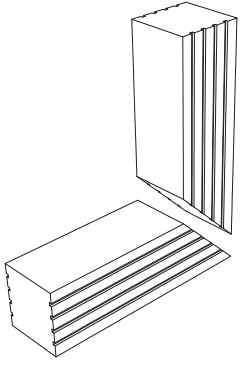
Installed beneath an expansion joint cover for waterproofing

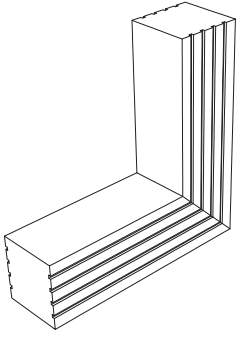


Forming Intersections with Flexatec 1000

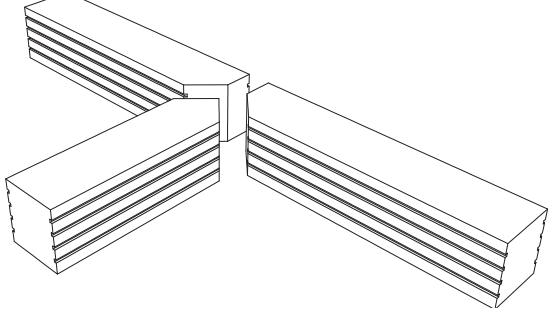
Upstand Intersection

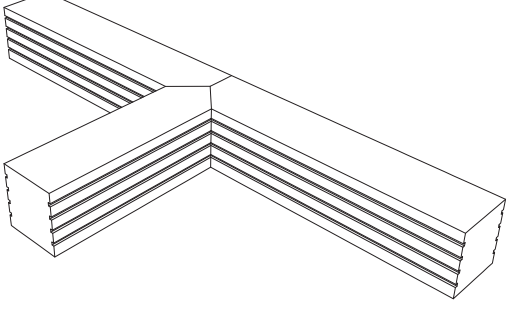
- Upstands should extend at least 150mm up the wall, above floor level, to maintain the waterproofing integrity of the system particularly on roof decks where water pooling may occur.
- Upstands must be formed by heat welding before installation.





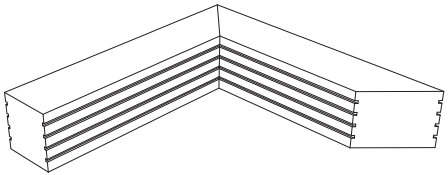
T Intersection

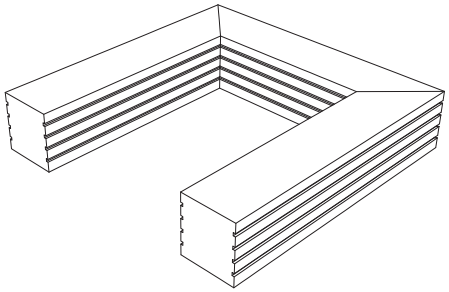




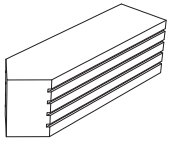
Forming Intersections with Flexatec 1000

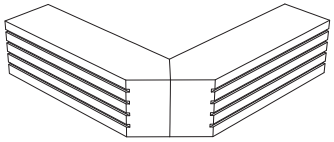
U Intersection

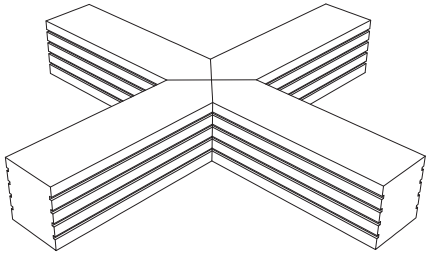




X Intersection







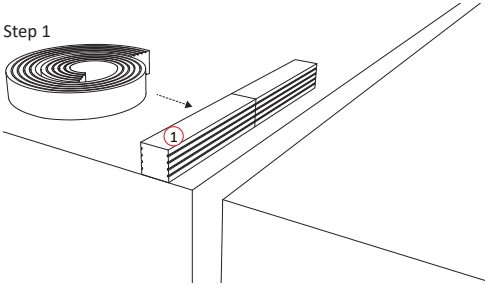
Joint Installation :

Components

(1) Flexatec 1000
(2) Flexafix

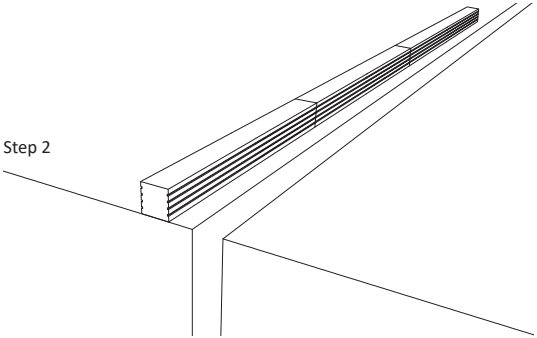
Flexatec 1000 : A01

Step 1



- Unroll the Flexatec 1000 and lay it alongside the expansion gap.
- The joint should be 25% wider than the recess into which it is to be affixed.

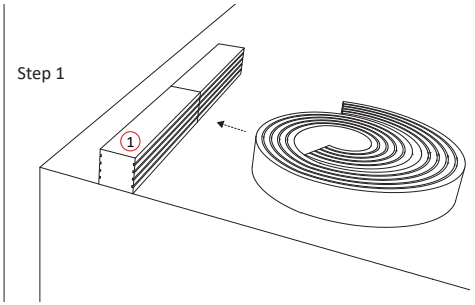
Step 2



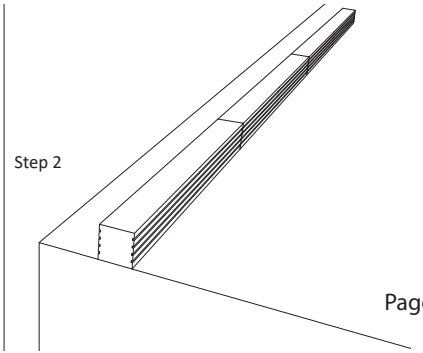
- Allow it to relax and check for appropriate length and width by abutting each other for the full length of the structural gap.
- The length of the abutting sections should be 50mm longer than the total gap length.

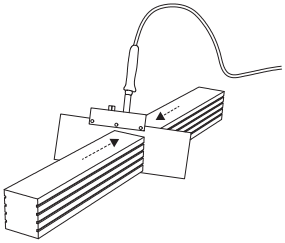
Flexatec 1000 : A02

Step 1

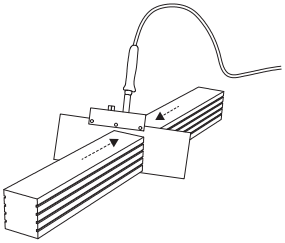


Step 2

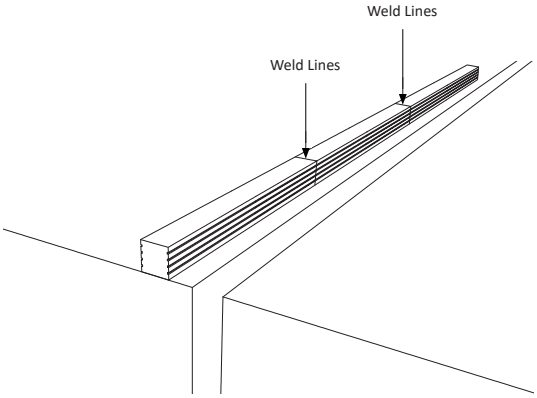




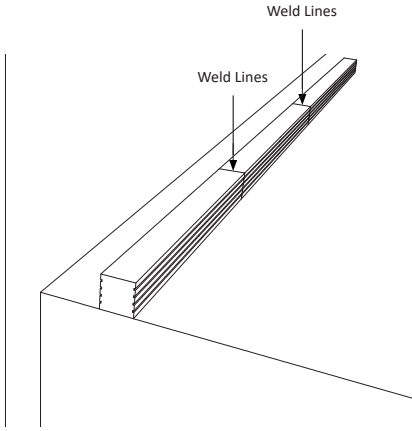
- Set the teflon-coated heating iron to 180°C and weld the lengths of flexatec 1000 series together to the full length of the expansion gap.
- Place the heating iron between abutting sections, press the segments firmly to the face of the iron.
- After 20 seconds remove the heating iron and press the two segments together holding for 30 seconds.
- This should be made to match on site lengths and to accommodate directional changes, e.g. going up a wall. Refer to page 6-7 for forming intersections.
- Once joined, a flexible waterproof bond has been formed. Ensure all welds are fully cool and cured before the Flexafix is mixed.



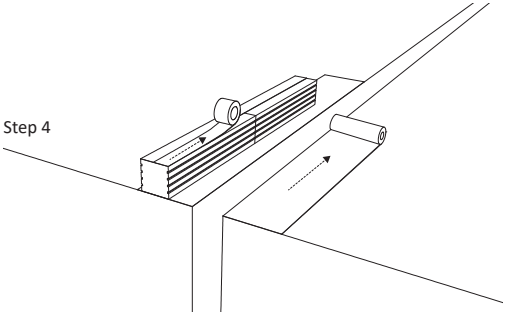
Step 3



Step 3

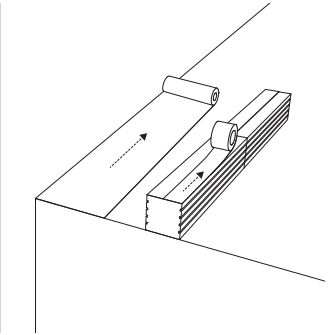


Step 4

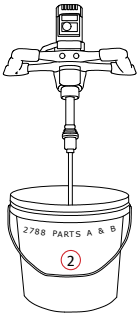


- Apply floor tape to the exposed surface of the Flexatec joint.
- Mask the area adjacent to the joint opening, at least 100mm wide. Use floor tape to keep surrounding areas clean.
- The tape should not enter the structural gap.

Step 4



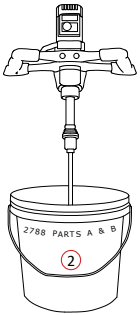
Step 5



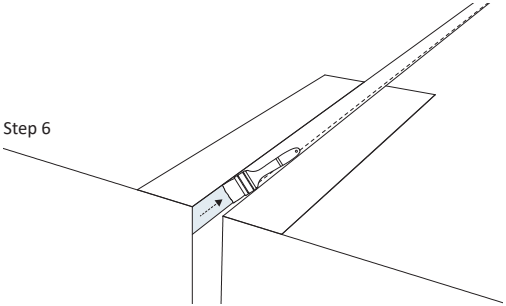
- Begin mixing the Flexafix.

  Pour Part 'A' and 'B' together and thoroughly blend using a slow speed drill (400 RPM) and a jiffy mixer paddle. The resultant mix should be a uniform grey colour and no marbling should be evident.
- The Flexafix is now ready to apply.

Step 5

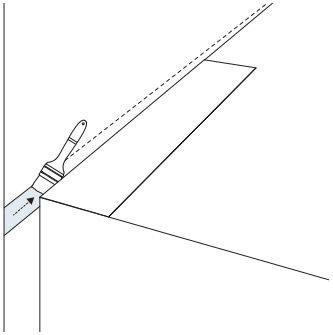


Step 6

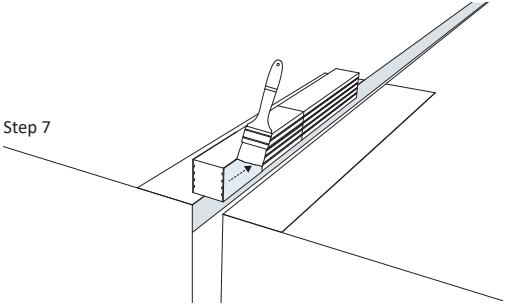


- At one end of the structural gap, at an intersection or corner, apply a layer of Flexafix to both sides of the concrete substrate recess surfaces approx. 1mm thick.
- To ensure that the adhesive does not cure before installation is complete, DO NOT apply the Flexafix more than 6 metres ahead of the joint installation.

Step 6

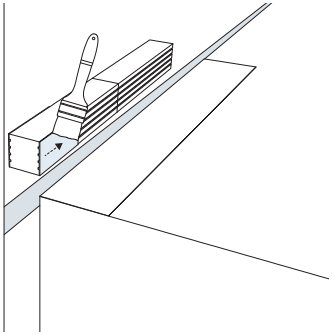


Step 7

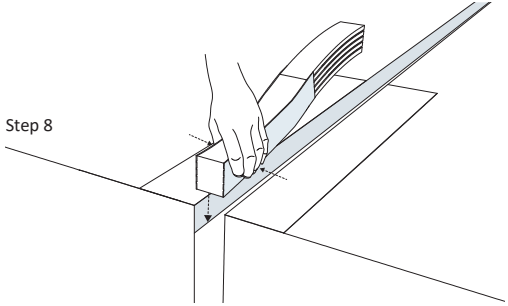


- Apply Flexafix to the ribbed sides of the Flexatec 1000 of approx. 1mm thick. Ensuring to fully coat the joint.
- DO NOT apply the Flexafix more than 6 metres ahead of the joint installation.

Step 7

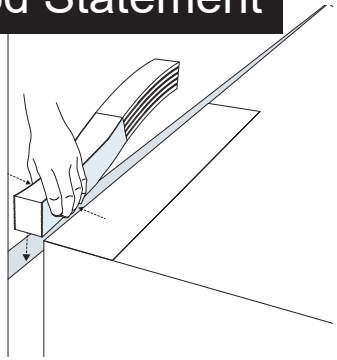


Step 8

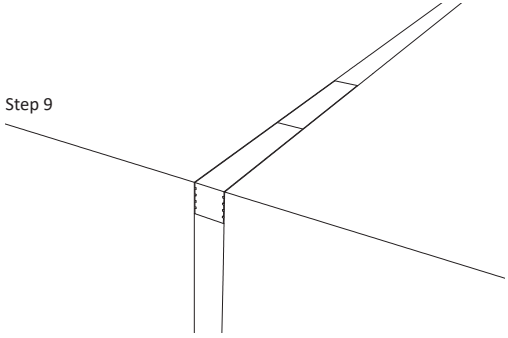


- Using gloved hands, squeezed and press the joint into the gap. The joint should not protrude above the gap, but lie either flush or 3mm below the gap edge.
- Do not insert at an angle or stretch the joint, as this will affect performance and water tightness.

Step 8

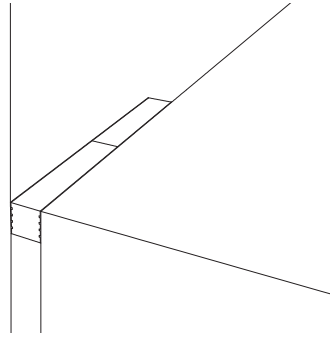


Step 9



- Allow to cure for 20 mins at 25 °C before use. Curing times will be longer in cooler temperatures.
- Remove all protective tape once the adhesive has fully cured.
- The expansion joint system has now been successfully installed. Clean exposed surfaces with non-solvent cleaner as required.

Step 9



Joining Lengths Together

- Ensure ends are squared off to allow joints to lay flush next to each other.
- Intersection joints - Refer to intersection method statement.
- Heat bond the lengths together for a watertight seal, using a teflon coated plate.

Protection :

- We recommend the joint is protected at all times from site traffic, prior to handover.
- Leave tape on until surface side of joint is ready to be exposed to avoid scratches and unwanted marks.

After Care :

Cleaning & Maintenance Instructions:

- All joints should be cleaned using a mild detergent.
- Abrasive cleaning regimes should be avoided as this could, over time, cause damage to the joint.

Please do not hesitate to call or email Vexcolt for your enquiries.

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