UNIFLEX® PE BOND BREAKER TAPE



Product Features

UNIFLEX® PE Bond Breaker Tape is a non-absorbent, bitumen-free, closed cell polyethylene tape with a self-adhesive backing. It is laid at the base of the sealant slot to stop cold-applied elastomeric joint sealants from bonding to concrete, metal or joint filler board.

The self-adhesive backing conforms easily to irregular surfaces. By keeping the sealant off the base of the slot, the tape prevents three-sided adhesion, which would limit the sealant's ability to accommodate joint movement.

SUITABLE FOR DRINKING WATER CONTACT
Tested to MS 1583 and cytotoxicity test · SPAN approved

Advantages

- Non-absorbent surface eliminates three-side adhesion of the elastomeric sealant
- Bitumen free and rot proof, ideal for water retaining structures
- Closed cell structure does not allow the absorption of moisture or air
- Fully compatible with a wide variety of sealants
- Efficient and cost effective

Fields of Application

Brickworks, Blockworks & Masonry	Curtain Walls
Expansion, Isolation & Control Joints	Pre-cast Panels
Highway & Pavements Joints	Window & Door Applications
Parking Decks	Repairs Work

Compatible Products

- UNISEAL® PU, PU PRO, PS and MS joint sealants
- UNIFLEX® PE, RBCF and FB joint filler boards

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Technical Properties

Property	Unit	Test Method	Result
Density	kg/m³	ASTM D792	28 ± 10%
Tensile Strength	kgf/cm²	ASTM D412	5.1
Elongation at Break	%	ASTM D412	180
Hardness	Shore C	JIS K7312	16 ± 3
Compression Deflection	kgf	ASTM D1056	3.4

Typical values, given as a guide only.

Physical Properties

Material	:	Closed Cell Polyethylene (PE) with self-adhesive tape
Colour	:	Black
Size	:	20mm x 2m length 25mm x 2m length 50mm x 2m length 75mm x 2m length *(other sizes available upon request)
Thickness	:	3mm to 50mm
Weight	:	Dependent upon sizes

Shelf Life & Storage

UNIFLEX® PE Bond Breaker Tape has a shelf life of **12 months** when stored under cover in its original packaging, in a dry place away from direct sunlight, heat and sources of ignition.

Health & Safety

UNIFLEX® PE Bond Breaker Tape presents no health hazard in normal handling and use. Wear gloves when cutting, and follow normal site safety practice.

This technical data sheet is given in good faith and does not guarantee the application work.
All Unity Reliance technical data sheets & method statements are updated on a regular basis and can be subject to change without notice.
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Installation Procedures

1 Preparation | 2 Application | 3 Joint Sealing

Step 1
PREPARATION

The joint surface must be **clean, dry and free from oil, loose particles, cement laitance and other contaminants**. Wire brushing, grinding, sand blasting or solvent cleaning may be required to expose a clean and sound substrate. Remove sharp edges and corners that could puncture or damage the tape.

Step 2
APPLICATION

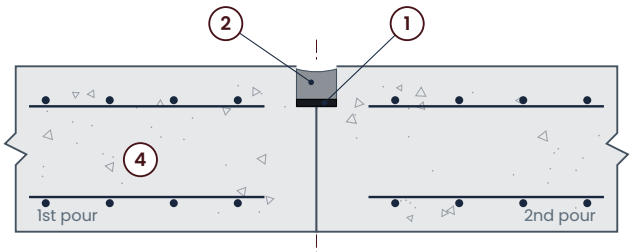
The sealant should bond to the two opposite sides of the sealant slot but not to its base: **two-sided adhesion**, not three-sided adhesion. To stop the sealant bonding to the base of the slot or to the filler board, peel off the backing and press **UNIFLEX® PE Bond Breaker Tape** along the full width and length of the base of the slot.

Step 3
JOINT SEALING

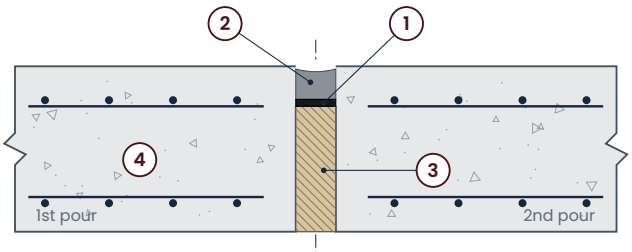
Seal the joint over the tape with an appropriate sealant from the **UNISEAL®** range.

Typical Drawing & Profiles

1 CONSTRUCTION JOINT — Not to scale



2 EXPANSION JOINT — Not to scale



LEGEND (1) UNIFLEX® PE Bond Breaker Tape (2) UNISEAL® joint sealant (3) UNIFLEX® filler board (4) Reinforced concrete

Illustrations only – not for construction.

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