UNIFLEX® RBCF

RESIN BONDED CORK FILLER



Product Features

UNIFLEX® RBCF is a resin bonded cork expansion joint filler board. It is made from granulated cork bound together with a synthetic resin, and it **supports the joint sealant** in expansion and movement joints.

UNIFLEX® RBCF does not contain bitumen or tar, so it cannot contaminate the joint faces or impair the adhesion of the joint sealant. In wet or moist conditions **it swells to occupy a larger volume** than the material as supplied.

UNIFLEX® RBCF is suitable for all types of concrete construction. It is particularly recommended for **water-retaining structures**, where joints must stay tightly packed even when they open in width.

Advantages

Simple and easy to handle and install	Will not extrude under compression
Resilient, non-tainting and rot proof	Low load transfer across an expansion joint

Fields of Application

Water Tanks	Driveways
Wet Areas	Highways and Bridges
Water Treatment Plants	Airport Runways
Dams	Pedestrian Malls
Sewage Treatment Plants	Footpaths
Reservoirs	Brick or Block Walls
Swimming Pools	Abutments & Parapet Walls

Compatible Products

UNISEAL® PU, PU PRO, PS and MS joint sealants, over UNIFLEX® PE Bond Breaker Tape
UNISTICK® CA contact adhesive, to fix the board before the second pour

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Technical Properties

Property	Unit	Result
Density	kg/m³	200 – 260
Compression to 50% of original thickness (stress applied)	kPa	450 – 600
Recovery after compression	%	> 90
Extrusion	mm	< 3
Water Absorption (24 hours immersion)	%	< 20
Expansion in Boiling Water (1 hour)	%	> 85

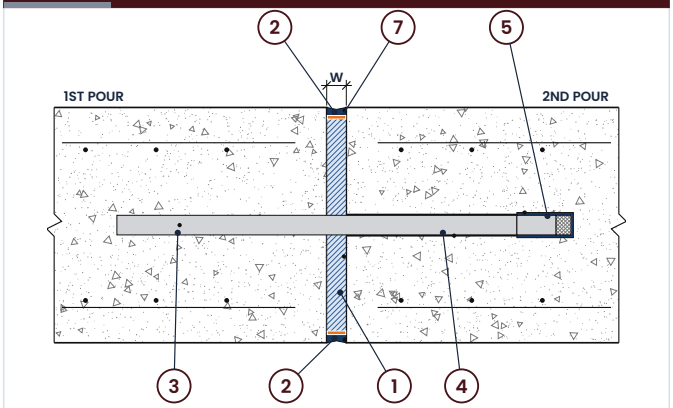
*Values based on independent laboratory tests to ASTM D545 (2025); test report available on request.

Physical Properties

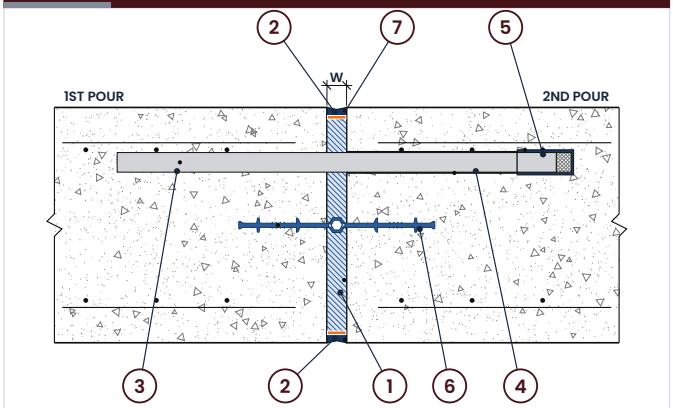
Material	:	Granulated cork bound with resin
Colour	:	Brown
Size	:	915mm x 610mm
Thickness	:	10mm, 12mm, 20mm, 25mm
Packing	:	10mm : 30 sheets / carton 12mm : 25 sheets / carton 20mm : 15 sheets / carton 25mm : 12 sheets / carton

Typical Drawing

1 EXPANSION JOINT WITH DOWEL BAR — Not to scale



2 EXPANSION JOINT WITH WATERSTOP — Not to scale



LEGEND

1. UNIFLEX® RBCF fillerboard
2. UNISEAL® joint sealant
3. Dowel bar, bonded in 1st pour
4. Debonded end, UNICOAT® coated
5. Dowel cap, compressible fill
6. UNISTOP® IEJ waterstop
7. UNIFLEX® PE bond breaker tape

Illustrations only – not for construction. Refer to drawing UR-FL-01.

This technical data sheet is given in good faith and does not guarantee the application work.
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Installation Procedures

1 First Pour | 2 Cut & Fix Board | 3 Second Pour | 4 Joint Sealing

Step 1
FIRST POUR

Cast the first side of the joint (1st pour) against the formwork. When the concrete has hardened, remove the formwork. Check that the joint face is clean, sound and free of fins, protrusions and loose material, so that **UNIFLEX® RBCF** sits flat against it.

Step 2
CUT & FIX BOARD

Cut **UNIFLEX® RBCF** with a sharp knife or a fine-toothed saw to the length of the joint, and to the slab depth less the depth of the sealing slot. Where dowel bars cross the joint, mark and drill the board for the dowels.

Fix the board against the hardened joint face. Spot bond it with **UNISTICK® CA** (recommended) and allow the contact adhesive to set. Concrete nails can also be used to hold the board. Place a removable timber former, the same width as the board, on top of it and flush with the finished surface. The former forms the sealing slot.

Step 3
SECOND POUR

Cast the second side of the joint (2nd pour) against the board and the former. When the concrete has hardened, remove the former to leave the sealing slot.

Alternatively, fix **UNIFLEX® RBCF** to the full depth of the slab and cut it back to the sealant depth later. This method is used where the joint can only be cleaned and sealed after all other work has finished, for example on housing estate roads.

Step 4
JOINT SEALING

Clean the sealing slot. It must be dry and free of dust, laitance and loose cork. Lay **UNIFLEX® PE BOND BREAKER TAPE** over the top of the board, so that the sealant bonds to the two joint faces only and not to the cork.

Seal the joint with an appropriate sealant from the **UNISEAL®** range, following the sealant data sheet for priming and joint dimensions.

Shelf Life & Storage

Shelf life is 12 months when stored correctly. Store **UNIFLEX® RBCF** flat, under cover and in dry conditions, clear of the ground. As with all organic materials, prolonged storage in wet conditions carries a slight risk of spontaneous combustion.

Health & Safety

UNIFLEX® RBCF presents no health hazard in normal handling and use. Wear gloves and a dust mask when cutting. Refer to the Safety Data Sheet for further information.

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