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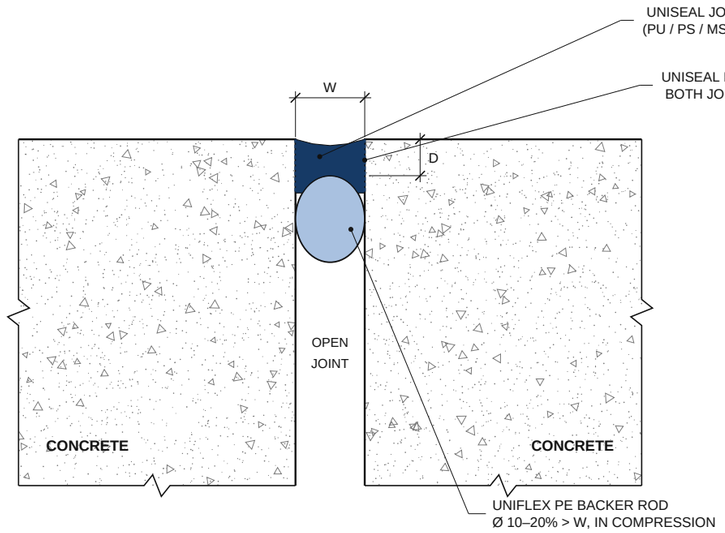
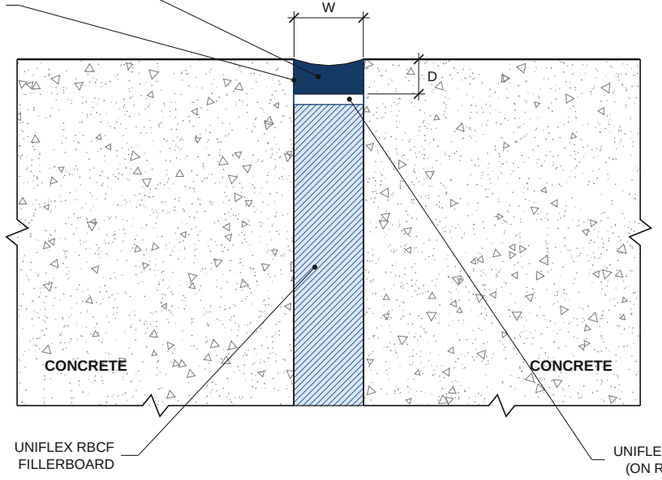


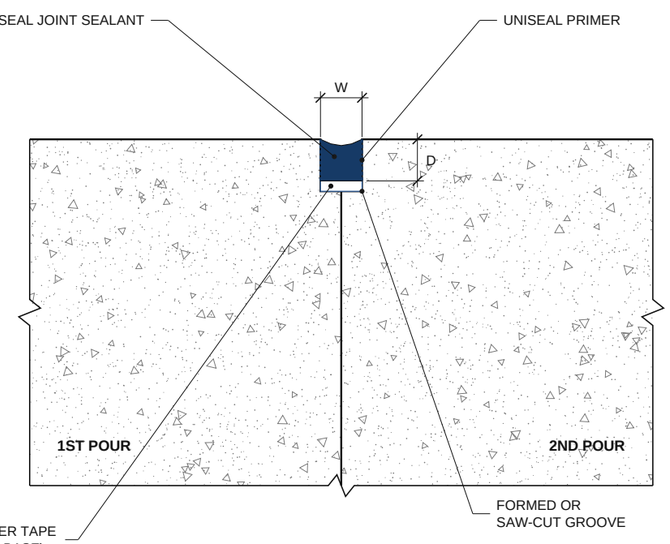
1 SEALANT ON BACKER ROD

MOVEMENT / EXPANSION JOINT – NOT TO SCALE



2 SEALANT OVER FILLERBOARD

WITH UNIFLEX PE NO TAPE IS NEEDED (UR-FL-02) – NOT TO SCALE



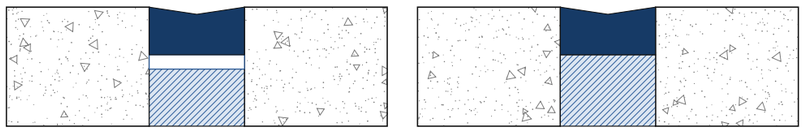
3 SEALED GROOVE

CONSTRUCTION / CONTROL JOINT – NOT TO SCALE

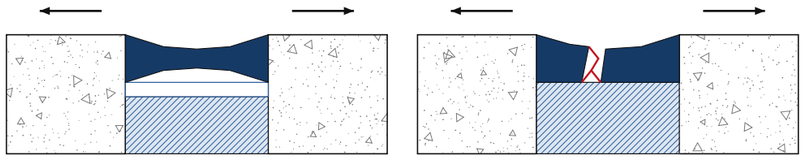
✓ **CORRECT – TWO-SIDED ADHESION**

✗ **WRONG – THREE-SIDED ADHESION**

AS INSTALLED



JOINT OPENS



Bond breaker lets the sealant neck evenly, bonded to both faces only

Sealant bonded to the base is restrained and tears

4 WHY A BACKER ROD OR BOND BREAKER

PRINCIPLE ONLY – NOT TO SCALE

JOINT GEOMETRY (REFER TO TDS)

JOINT WIDTH (W)	WIDTH : DEPTH (W : D)
Up to 12 mm	1 : 1
Over 12 mm	2 : 1

- Minimum sealant depth 6 mm. Maximum width 35 mm for vertical joints (UNISEAL PU / MS).
- UNISEAL PS: depth not to exceed width; width at least 4 x anticipated movement.
- UNIFLEX PE backer rod diameter 10–20% greater than the joint width.

GENERAL NOTES (FOR GUIDANCE ONLY)

1. Joint faces to be clean, dry, sound and free of laitance, oil and dust.
2. Apply UNISEAL PRIMER to porous substrates; required for water-immersed joints. Refer to the UNISEAL PRIMER TDS.
3. Sealant to bond to the two joint faces only. Use backer rod or bond breaker tape to prevent three-sided adhesion (Detail 4).
4. Joint width, spacing and design movement as per engineer. Select W to suit the movement capability stated in the sealant TDS.
5. Tool the sealant immediately after application for full contact and a neat finish.

UNISEAL RANGE

PRODUCT	TYPE	TYPICAL USE
UNISEAL PU	1-part polyurethane	Buildings, precast, roads
UNISEAL PS	2-part polysulphide	Water-retaining, chemical, fuel
UNISEAL MS POLYETHER	1-part MS polymer	Water works, tanks

Refer to each product TDS for properties and movement capability.

LEGEND

- Concrete (cut)
- UNISEAL joint sealant
- UNISEAL primer
- UNIFLEX PE backer rod
- UNIFLEX PE bond breaker tape
- UNIFLEX PE fillerboard

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REVISIONS

REV	DATE	DESCRIPTION
0	29/10/26	FIRST ISSUE
A	30/10/26	SEALANT ON BACKER ROD

PRODUCT
UNISEAL PU / PS / MS POLYETHER
UNISEAL PRIMER
UNIFLEX PE BACKER ROD / TAPE

DRAWING TITLE
TYPICAL JOINT SEALANT SECTION DETAILS

DRAWING NO.
UR-SL-01

REV
A

SCALE	SIZE	DATE	DRAWN
NTS	A3	30/10/26	UR

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