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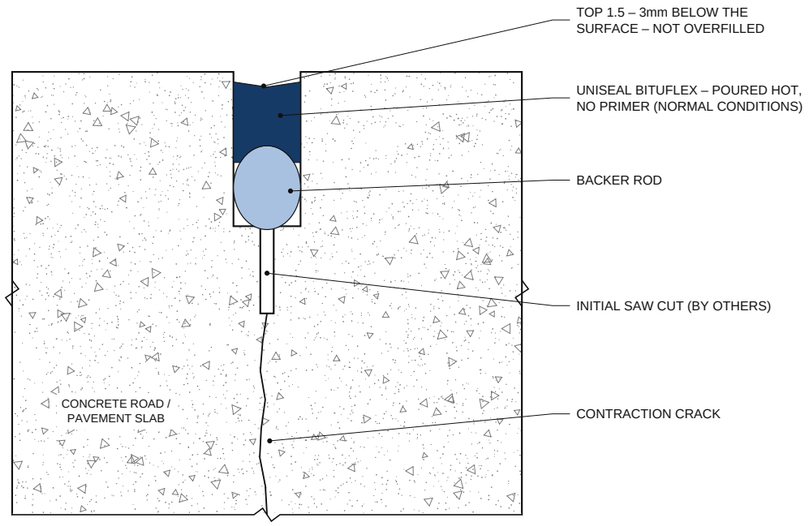
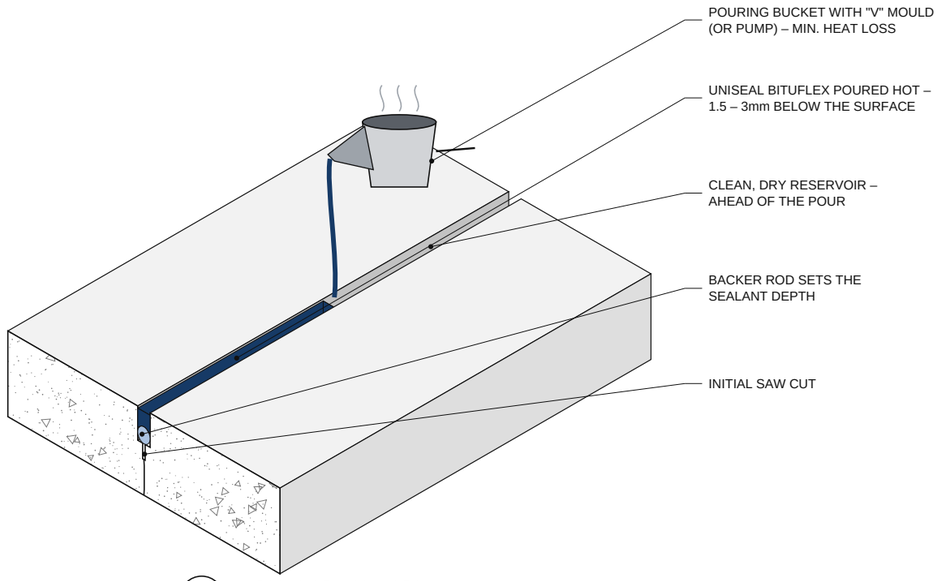


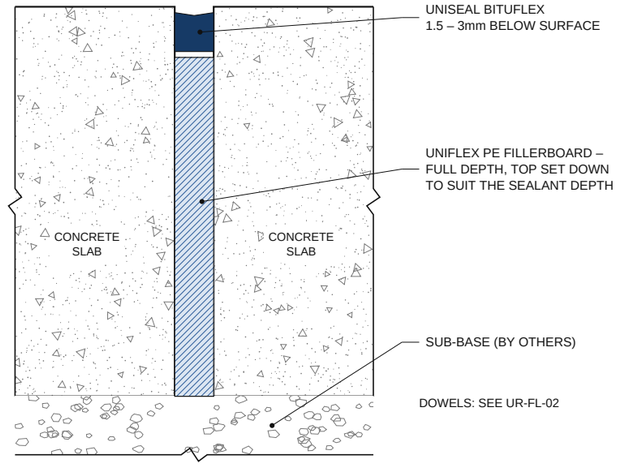
1 SAWN JOINT – RESERVOIR CUT

SECTION – CONTRACTION JOINT



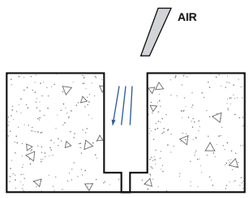
2 POURING THE JOINT

3D VIEW



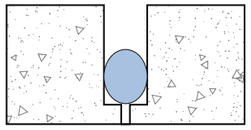
3 EXPANSION JOINT

SECTION – ROAD / SLAB ON GRADE



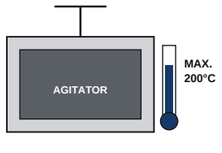
1 STEP 1 – CLEAN & DRY

Hot compressed-air lance, grit blast or power brush. Remove old sealant, repair spalled arrises.



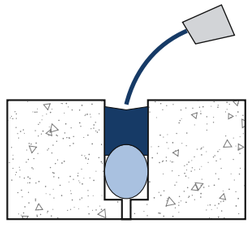
2 STEP 2 – BACKER ROD

Insert the backer rod to the specified sealant depth. Reservoir must be dry before pouring.



3 STEP 3 – HEAT

Purpose-built pre-heater with agitator. Never exceed 200°C. Keep water away from hot material.



4 STEP 4 – POUR

Pump or pour (bucket + V mould) with minimum heat loss, to 1.5 – 3mm below the surface.

4 INSTALLATION STEPS

AS TDS – NOT TO SCALE

USAGE RATE – kg PER 250m RUN (TDS)

DEPTH \ WIDTH	13	15	20	25	30	35	40
20mm	76	88	117	147	176	205	235
25mm				190	228	266	304
30mm					280	326	373
35mm						386	442
40mm							511

For estimating only (mm). Joint width and depth as specified by the consultant.

UNISEAL BITUFLEX (REFER TO TDS)

PROPERTY	TEST	VALUE
Material / colour	–	Rubberised bitumen, black
Cone penetration	ASTM D5	10 – 30 dmm @ 25°C
Flow resistance	ASTM D1191	< 1mm @ 60°C
Softening point	ASTM D36	> 95°C
Extension, 3 cycles 50%	BS 2499	Pass
Density	–	1.4
Max. heating temperature	–	200°C
Packing / shelf life	–	17kg can / 24 months
Primer	–	Not required (normal use)

GENERAL NOTES (FOR GUIDANCE ONLY)

1. Joints must be clean and dry – hot compressed-air lance, grit blasting or power brushing. Remove old sealant and repair spalled concrete first.
2. No primer is needed under normal conditions (adhesion promoters in the compound).
3. Insert backer rod (or caulking) to set the sealant depth before pouring.
4. Heat and agitate in a purpose-built sealant pre-heater; never exceed 200°C. Pump, or pour with a bucket and "V" mould, keeping heat loss low.
5. In concrete, finish 1.5 – 3mm below the surface so traffic does not pick up the sealant.
6. Joint width and sealant depth, joint layout, saw-cut timing, dowels and fillerboard as specified by the consultant.
7. Safety: ventilate, wear gloves and a face shield, keep water away from hot material. Burns: do not remove the bitumen – seek medical help.
8. Bridge expansion joints: installation instructions available separately on request (TDS).

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REVISIONS

REV	DATE	DESCRIPTION
0	29/10/26	FIRST ISSUE
A	30/10/26	SEALANT ON BACKER ROD
B	12/11/26	VALUES PER SUPPLIER TDS

PRODUCT
UNISEAL BITUFLEX HOT-POURED SEALANT
UNIFLEX PE FILLERBOARD
BACKER ROD

DRAWING TITLE
UNISEAL BITUFLEX HOT-POURED RUBBER BITUMEN JOINT SEALANT

DRAWING NO.
UR-SL-02

REV
B

SCALE	SIZE	DATE	DRAWN
NTS	A3	12/11/26	UR

FOR ILLUSTRATION ONLY NOT FOR CONSTRUCTION