

DATA Sheet



PU SEALANT

USES

Extensive usage in civil engineering applications for sealing expansion and construction joints. Can also be used to fill joints in precast elements, external walling and cladding, infill panels and around window frames.

ADVANTAGES

FAST CURING EXCELLENT ADHESION
LOW MODULUS PERMANENTLY FLEXIBLE
ONE COMPONENT EASILY OVERCOATED

PRODUCT DESCRIPTION

FLEXCRETE PU SEALANT is a one component, gun grade, polyurethane based product which cures rapidly on exposure to atmospheric moisture to form a tough, flexible adhesive/sealant of permanent elasticity. It has excellent resistance to ageing and weathering and is ideally suited for application to vertical and overhead surfaces. When cured, it has excellent adhesion to a wide range of substrates and can be overcoated with membranes in the Flexcrete range.

TECHNICAL DATA

Colour:	Grey and White (other colours available subject to minimum order).
Density:	1.19kg/litre.
Application Temperature:	5°C to 40°C.
Working Temperature:	-40°C to +90°C.
Skinning Time:	15 mins. (20°C and 65% R.H.).
Tack Free Time:	24 hrs. (20°C and 65% R.H.).
Cure Rate:	1mm/24 hrs (20°C and 65% R.H.).
Shore A Hardness:	13-17.
Breaking Strength:	min. 0.4N/mm ² .
Elongation at Break:	>800%.
Elastic Modulus:	0.15 N / m m ² : 100% elongation.
Max. Joint Movement:	30% of joint width.

APPLICATION DATA

Application Guide available on request.

PREPARATION

Joints should be designed so that the maximum movement does not exceed 30% of the joint width. When constructing a joint, the following measurements have to be observed:

Joint Width	Joint Depth
6-10mm	Equal to Width
11-40mm	½ of Width

THE DEPTH OF THE JOINT MUST NEVER EXCEED THE WIDTH.

Where necessary, the void under the joint should be filled with a closed cell foam rod/strip or polythene tape (oil or bitumen impregnated backing is not suitable). Select a suitable size backing strip to attain the correct design. Adhesion should take place between the sealant and joint sides only.

Joints in excess of 25mm in width should be cut triangular in shape (reverse dovetail). The joint surfaces must be free from all unsound material, i.e. dust, oil, grease, corrosion by products and organic growth. All loose material and dirt must be removed. If a substrate is to be overcoated with a membrane in the Flexcrete range and the joint to be left exposed, coating should be carried out prior to application of the sealant, as described on the relevant data sheet. Ensure that the coating is continued onto the reveals of the joint.

PRIMING

To obtain maximum adhesion to coatings and cement based substrates, the surfaces of the reveals should be primed with **LPL BONDING PRIMER**. (See manufacturer's data sheet). Do not apply to the joint base or backing strip. Sealant must be applied no sooner than 18 hours, no longer than 7 days after the application of the primer.

PLACING

The material is extruded from a 310ml aluminium cartridge by means of a conventional mastic gun or pressure fed cartridge gun to completely fill the void. Excess sealant should be removed with a suitable tool and the surface smoothed to give a concave finish. In order to obtain sharp exact joint lines, the edges should be masked with self adhesive tape which should be removed whilst the sealant is still soft. Leave sufficient sealant surface open to atmospheric moisture, but protect from water for at least 3 hours. For best results, cartridges should be used within 24 hours of opening.

OVERCOATING

FLEXCRETE PU SEALANT can only be overcoated with membranes in the Flexcrete range. Prior to overcoating, treat the surface with **LPL BONDING PRIMER** to obtain maximum adhesion (see relevant data sheet). The primed sealant must be coated no sooner than 18 hours, no longer than 7 days after the application of the **LPL BONDING PRIMER**. Membranes applied over movement cracks or joints may require reinforcement to prevent localised tearing.

SHELF LIFE

At least 6 months in dry conditions at normal ambient temperatures (10-25°C).

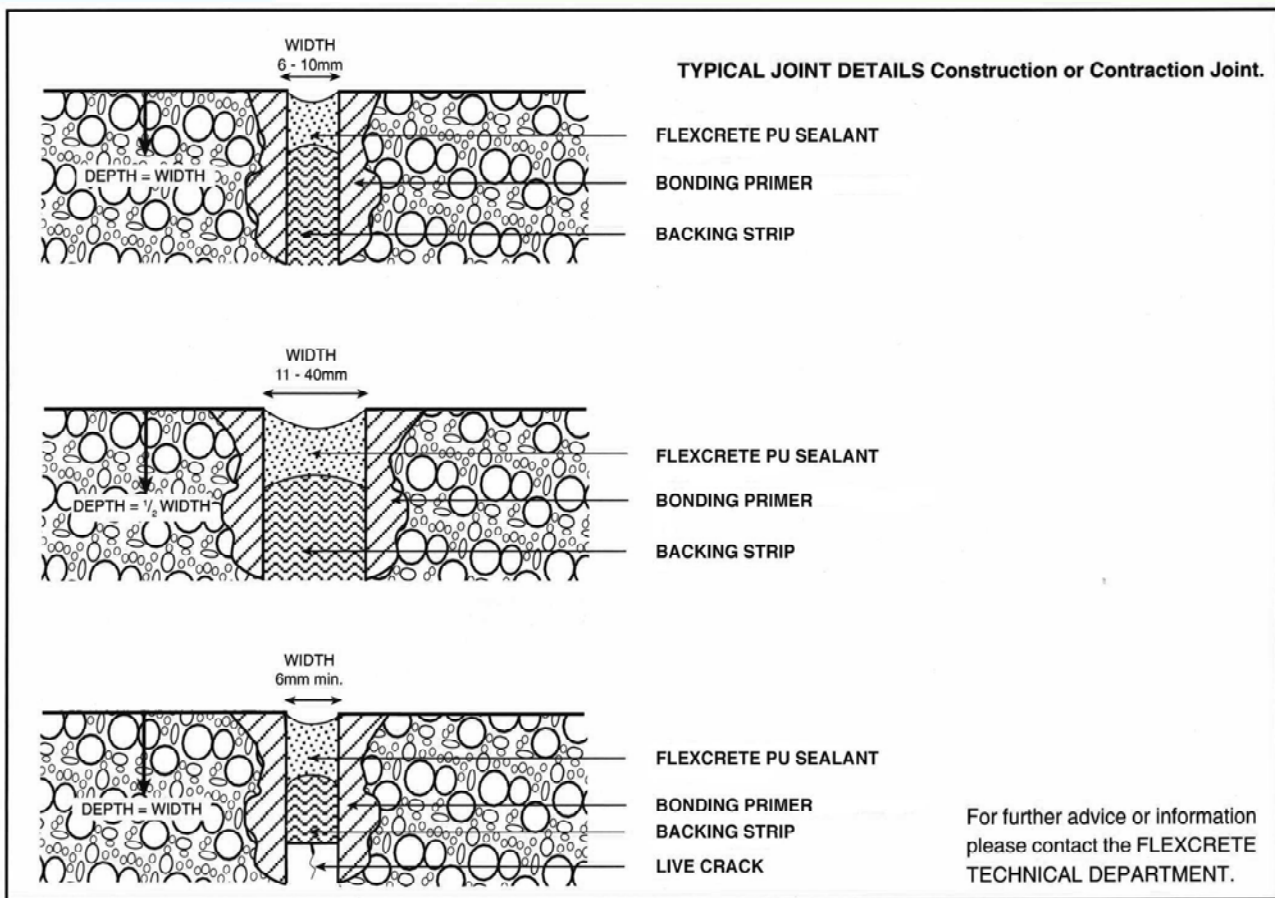
PACKAGING AND COVERAGE

Pack Size: 310ml aluminium cartridges.

Joint Size Width x Depth	Metre Run/Cartridge	Litre PU SEALANT Per Metre Run
5 x 5mm	12.4m	0.025
10 x 10mm	3.1m	0.100
16 x 8mm	2.42m	0.128
20 x 10mm	1.55m	0.200
30 x 15mm	0.69m	0.450
40 x 20mm	0.39m	0.800

SAFETY DATA

Safety Data Sheet available on request. 12/06



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