

Fosroc® Expoflex 800

constructive solutions

Heavy duty epoxy urethane joint sealant

Uses

For sealing internal joints subject to heavy loading and abrasion, or where chemical resistance is required. Can be used in factories, warehouses and distribution centres. It is, particularly effective where there is forklift truck traffic. Expoflex 800 can also be used where joints would be subject to stiletto heels, shopping centres, podiums etc. It is suitable for use in prisons as an anti-pick sealant for sealing internal partitions, cell doors and windows, fittings and furniture.

Advantages

- Cures to a tough seal
- Abrasion resistant
- High modulus
- Resistant to chemical, fuel and oil spillage
- Easily installed to give a flush finish
- Hard, but flexible sealant; resists picking and vandalism

Description

Expoflex 800 is a two-component elastomeric sealant for limited movement joints. After mixing, the resultant compound will cure to provide an exceptionally robust seal, while retaining a degree of flexibility. Expoflex 800 is abrasion resistant and withstands spillage of fuel oils, mineral acids and vegetable oils. Expoflex 800 can be used in joints between 5 mm and 50 mm wide.

Specification clauses

The joint sealant shall be Fosroc Expoflex 800, an epoxy urethane, heavy duty sealant. It shall be applied strictly in accordance with the Fosroc data sheet.

Properties

Expoflex 800

Form:	Two-part compound Base: White paste Curing agent: Grey paste
Colour:	Light grey
MAF (BS 6093):	10% for butt joints
Cure:	Chemical cure
Pot life:	1 hour at 25°C
Trafficking time:	24 hours at 20°C: light traffic 48 hours at 20°C: heavy traffic
Application temperature:	To avoid prolonged cure time apply Expoflex 800 above 5°C

Hardness Shore 'A':	65 to 80
Chemical resistance to occasional spillage:	Resistant to alcohols, alkalis, mineral oil, hot detergent solution, 60% live steam, 25% mineral acids, vegetable oils and kerosene
UV resistance:	Some surface discolouration and slight surface hardening
Solids content:	100%
Density:	1.4 g/cm ³
Flash point:	Over 65°C

Application instructions

Joint Design

Joints should be designed so that joint changes do not exceed the 10% MAF of Expoflex 800.

We would recommend that joints in new concrete slabs are left to the final stages of construction when temperatures have stabilised and the initial shrinkage has taken place.

Where joints are less than 25 mm and are fully supported by a solid backing, minimum depth should be 10 mm to 15 mm. Where a resilient backing, minimum depth should be 20mm. For wider joints a square section is preferable

Preparation

Joint surfaces shall be clean, dry and free from contamination. Any voids or gaps at the base of the sealing slot should be filled and a suitable bond breaker should be pushed into construction and contraction joint slots. Where a particularly neat finish is required mask edges of joint before priming (if required) and sealant application.

Priming

Where surface shall be subject to submersion or permanently damp, joints should be primed using Fosroc Primer 13X. Decant the entire contents of primer curing agent into the primer base and stir thoroughly until mixed. Apply the primer using a clean dry paint brush working well in to ensure complete coverage. Allow to dry for 30 minutes prior to application of the sealant. If the primer coating is left for more than 2 hours, re-prime.

Mixing

In cold weather Expoflex 800 mixes more easily if stored overnight at room temperature. Transfer the contents of the small tin into the base tin and mix thoroughly using a slow speed drill (300 to 500 rpm) fitted with a Fosroc Sealant Mixing Paddle until a uniform colour is achieved throughout. Immediately after mixing load the Expoflex 800 into a "G" gun using a follower plate. Extrude the sealant firmly into joint to ensure complete contact with the joint face.

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Finishing

Expoflex should be tooled off flush with adjacent surfaces. A minimum of surface lubrication such as dilute detergent solution may be used to assist the process. Remove masking immediately after tooling.

Cleaning

Clean equipment immediately after use with Fosroc Equipment Cleaner.

Estimating

Expoflex 800 is supplied in 2 litre tins in cartons of two.

Guide to quantities

Joint size w x d in mm	Litres per metre run	Metre run per 2.0 litre pack
5 x 15	0.075	26.67
5 x 20	0.100	20.00
20 x 10	0.200	10.00
20 x 25	0.500	4.00
25 x 25	0.625	3.20
30 x 25	0.750	2.67
30 x 30	0.900	2.22
40 x 25	1.000	2.00
40 x 40	1.600	1.25
50 x 25	1.250	1.60
50 x 50	2.500	0.80

200 ml tin of Fosroc Primer 13X is sufficient for 2m² of Expoflex 800. These are theoretical yields. No allowance has been made for variations in joint width or wastage.

Storage

Storage life of 12 months in original containers when kept in dry conditions between 5°C and 27°C.

Precautions

Health and safety

For further information refer to appropriate Product Safety Data Sheet.

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Important note

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