

UV resistant, one part sealant for fire and acoustic rated construction

Uses

Sealing fire rated or acoustic rated joints in high performance applications in building facades and general construction such as;

- External and internal, non-trafficable control joints in concrete, masonry, AAC and brick fire rated construction
- Acoustic sealing between most common building materials such as concrete, masonry, AAC, plasterboard, fibre cement, metals, timber and plastics as part of a suitable design

Advantages

- Fire rated for up to 4 hours*
- Meets BCA requirements for fire and acoustic sealing
- Easy to extrude – even at low temperatures
- 40% joint movement capability
- Outstanding weathering and UV resistance to maintain colour and integrity
- Excellent primerless adhesion to concrete, timber, masonry, aluminium, metal and ceramics
- Will not stain masonry or other surfaces
- Blister free cure in high humidity or on damp surfaces
- Low odour and very low VOC 15g/L
- Contains no isocyanate
- Halogen free

Standards Compliance

- AS1530.4-2005: Fire test in vertical concrete and AAC - control joints
- ISO9047 Joint movement capability

Description

Flamex XT is a high performance fire and acoustic rated elastomeric joint sealant based on Silyl Modified Polymers. Flamex XT offers the weathering and adhesion performance of a silicone sealant together with the toughness and the stain-free properties of a polyurethane sealant.

Design Criteria

For fire rated joints, Flamex XT is applied in joints between 20mm and 40mm wide, with a minimum depth of 10mm or half the width for joints wider than 20mm. Install backing rod in joint to control sealant depth.

Specification Clause

Where so indicated on the drawings joints are to be sealed using Fosroc Flamex XT, silyl modified polymer sealant as supplied by Fosroc.

The sealant must be capable of +/- 20% joint movement, have an elongation at break equal or greater than 260%, Shore A hardness of 31 and an acoustic rating up to 50Rw and fire rating up to 4 hours. Joints must be prepared and primed where required in accordance with the current technical data sheet.

Properties

Data quoted are typical for this product but do not constitute a specification.

Form:	Smooth, non-slump paste
Colour:	Concrete Grey
Skin time:	55 mins @ 23°C and 50% RH
Tooling Time:	30 mins @ 23°C and 50% RH
Cure time at 25°C:	>2mm / 24h @ 50% RH
Typical hardness (shore A):	31
Joint Movement Capability:	Total 40% (+/- 20%)
Elongation at break:	260%
Modulus @ 100%:	0.67 MPa (ASTM D412)
Specific Gravity:	1.47
VOC:	15g / litre
Acoustic rating Rw(CT;CTR):	Up to 50Rw
Fire rating* (AS1530.4):	- / 240 / 120

*Results quoted for fire rating are for 40mm x 20mm joint in concrete sealed both sides. Refer to Fosroc for results in other joint sizes and other materials.

Application Instructions

Preparation

Joint surfaces must be clean, dry and free from frost. Remove all dirt, laitance, loose materials and foreign matter. Remove all rust, scale and protective lacquers from metal surfaces. Non-porous surfaces should be degreased using Fosroc Solvent 10. In all joints a bond breaker must be used to prevent sealant contact with the back of the joint, to allow optimum sealant performance. In shallow joints self-adhesive polyethylene tape can be used. Deep joints should incorporate a backing strip such as Expandafoam Backing Rod to support the sealant while also acting as a bond breaker.

Priming requirements

Excellent adhesion can be gained on concrete, timber, metals, ceramics, brickwork and most coating surfaces without the use of primers.

Fosroc® Flamex® XT

Gun Loading

Flamex XT is applied using a suitable sausage gun. Insert the sausage into the gun, cut a slit at the top of the sausage, replace the end cap and nozzle and apply the sealant.

Application

Extrude the sealant firmly into joint to ensure complete contact with joint faces. Tool the sealant into the joint.

Flamex XT is easily tooled to a smooth finish without the use of soapy water / tooling aids. If a tooling aid is to be used it must only be applied after the Flamex XT has been initially tooled into the joint to stop any contamination of the joint faces.

Cleaning

Clean tools immediately after use with an alcohol based solvent.

Limitations

Not suitable for permanent immersion or below water line use.

Do not apply to wet surfaces.

Paintability

Flamex XT is paintable with water based paints typically after a thick skin has been allowed to develop. Painting can actually be performed as soon as the sealant has skinned but there is a risk of damaging the sealant. For best results painting should be done no later than 7 days after sealant application. The flexibility of coatings being applied over Flamex XT should also be taken into consideration to ensure the coating can accommodate the expected movement in the joint.

Solvent based paints

Prime the surface of the sealant with waterbased paint prior to using solvent based paints (eg. enamels).

Supply

Flamex XT is supplied in 600ml sausages.

Flamex XT Concrete Grey 600ml:	FC920045-600ML
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Coverage

On average one 600 ml sausage will supply 3 metres of 20mm x 10mm sealant bead.

Storage

Flamex XT has a shelf life of 12 months when kept in its original, un-opened packaging and stored in dry conditions between +10°C and 25°C with 55% relative humidity, away from direct sunlight and moisture.

Important notice

A Safety Data Sheet (SDS) is available from the Fosroc website. Read the SDS and TDS carefully prior to use as application or performance data may change from time to time. In emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia) or a doctor for advice.

Product disclaimer

This Technical Data Sheet (TDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this TDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Parchem does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.



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