

Fire rated, one-component, acrylic joint sealant for low movement interior applications

Uses

Sealing low movement interior joints requiring fire resistance up to 4 hours in:

- "Tilt up" construction
- High and low rise construction
- Precast and insitu concrete

Advantages

- Economical waterborne formulation
- Easy to apply and finish
- Quick drying
- Permanently flexible and paintable
- Slump resistant -suitable for wide joints
- Up to 4 hour fire resistance

Standards Compliance

Flamex One has been tested to AS1530.4:2014. Refer to FireTSLab report PF21065 for specific results.

Copies of the full test report are available from the Fosroc web site.

Description

Flamex One is a fire rated, non-slump, waterborne, acrylic joint sealant which dries quickly forming a flexible seal having good adhesion to most common building materials. It has very good application and finishing characteristics and forms a smooth skin quickly. Flamex One is flexible and will accommodate up to ±10% of structural movement between building components such as precast and insitu walls and ceilings. Flamex One is intended for use in relatively low movement interior joints, and is not suitable for use in water ponded or submerged applications.

Design Criteria

Flamex One can be used in joints from 10mm up to 20mm wide. Ideally, the depth of the sealant should be half the width with a minimum depth of 10 mm, however the joint configuration must be considered with reference to the required fire resistance achieved in testing the sealant.

Summary of AS1530.4:2014 test results

Joint size width x depth	Configuration	Integrity (min)	Insulation (min)	FRL
20mm x 20 mm	Sealed fire side only	250	50	-/240/30
20mm x 10 mm	Sealed Non-fire side only	250	107	-240/90
20mm x 10mm	Sealed both sides	250	166	-/240/150
20mm x 10mm	Sealed fire side only	250	28	-/240/-

Note: The above test results were achieved in joints between concrete wall panels 120mm thick.

Properties

Form:	Single part non-sag mastic
Colour:	Concrete grey
Physical/chemical change:	Dries by water loss
Application temperature:	5°C - 50°C
Skinning time:	20 minutes at 25°C, 50% RH
Cure rate:	Approximately 1 mm per day at 25°C, 50% RH
Movement accommodation factor (MAF):	±10% (20% total)
VOC content:	14.4g / litre

Application Instructions

Joint Backing

Expandafoam Closed Cell backing rod must be used as backing material in order to achieve the correct joint configuration.

Joint preparation

The joint faces must be dry, clean and frost free. Remove all dust, laitance, form release agents and curing compounds by vigorous wire brushing, grinding or grit blasting. Remove all rust, scale and protective lacquers from metal surfaces. Remove any oil or grease with Fosroc Solvent 10.

Priming

The use of primers is generally not required on correctly prepared surfaces. On excessively porous surfaces adhesion can be improved by diluting a small quantity of Flamex One, 1 : 3 with water and brushing this into the joint sides.

Tooling

Immediately after gunning Flamex One into the joints, the sealant must be well tooled using a smooth tool with preferably a slightly convex edge. A little water may be used to assist tooling.

Tooling forces the sealant to make good contact with joint faces and so ensures the good surface wetting essential for optimum adhesion.

Fosroc® Flamex® One

Clean up

Equipment should be cleaned immediately after use. Water may be used for uncured Flamex One while soaking in water combined with scrubbing will be required to remove cured sealant.

Supply

Flamex One is supplied in 600ml sausages in cartons of 20.

Flamex One 600ml:	FC920025-600ML
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Coverage

Each 600ml sausage will seal approximately 2 metres of a 25mm x 12mm joint.

Storage

Store in original packaging in cool, dry conditions i.e. not exceeding 25°C.

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.