

Technical Data Sheet

Flamex One

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

USES

Sealing low movement interior joints requiring a fire rating of up to 4 hours in:

- "Tilt up" construction
- High and low rise construction
- Precast and insitu concrete
- Service penetrations (metal pipes) through walls
- Window/door frame perimeters

ADVANTAGES

- Economical waterborne formulation
- Easy to apply and finish
- Permanently flexible and paintable
- Slump resistant -suitable for wide joints
- Long shelf life
- 4 hour fire rating

STANDARDS COMPLIANCE

4 hour fire rating

- Australian Standard: AS1530 - Pt 4,1997
- Australian Standard: AS4072 - Pt 1,1992

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, window and door frames as well as pipe penetrations. 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 is suitable for use in low movement interior joints in compartment walls, corridors, basements and around building components such as fire door frames, where a fire rating of up to 4 hours is required.

FIRE TEST RESULTS

Extensive fire testing has been carried out on Flamex One in accordance with Australian Standard AS 1530 - Part 4, as confirmation of its suitability for construction applications.

SUMMARY OF TEST RESULTS

Joint size	Insulation	Integrity width x depth
25 x 12 mm	> 3 hours	> 4 hours
30 x 15 mm	> 3 hours	> 4 hours

Note: The above test results were achieved through the application of Flamex One to only one side of the joint. Results apply to "fire exposed" side of construction joints between concrete wall panels 120 mm thick.

JOINT DESIGN

Flamex One can be used in joints from 6 mm up to 30 mm wide. The depth of the sealant should be half the width with a minimum depth of 12 mm. The width of the joint must be designed so that the sealant's maximum movement accommodation of +/-10% is not exceeded. Where fire risk is present on both sides of a panel, it is best to apply Flamex One to both sides of the panel.

PROPERTIES

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

Form:	Single part non-sag mastic
Colour:	Concrete grey, (other colours to minimum order)
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)

APPLICATION INSTRUCTIONS

JOINT BACKING

In deep joints in walls and non-trafficked horizontal surfaces, Expandafoam must be used as backing material in order to achieve the correct joint configuration. In formed joints, a polyethylene bond breaker tape must be used to ensure the Flamex One does not bond to the back face of the joint.

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 Parchem Solvent.

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.

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.

ESTIMATING

PACKAGING

Flamex One:	600 ml sausage
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COVERAGE

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

STORAGE

Twelve months in original containers stored in cool, dry conditions i.e. not exceeding 25°C. Storage above this temperature may reduce storage life.

IMPORTANT NOTICE

A Material Safety Data Sheet (MSDS) and Technical Data Sheet (TDS) are available from the Parchem website or upon request from the nearest Parchem sales office. Read the MSDS 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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