



Technical Data Sheet

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Premium-flex Fyreseal 100 Construction Sealant

Premium-flex Fyreseal 100 is a flexible, one component acrylic sealant, fire-rated up to 4 hours for sealing interior and vertical exterior joints up to 50mm wide subject to moderate movement. Ideal for Tilt-up construction / expansion joints, sealing fire door frames and service penetrations, Also used for dry wall partitioning as an acoustic sealant to 56 STC rating.

General information: - Seals at room temperature upon exposure to air with excellent adhesion to most common building materials generally without the use of a primer. Applied sealant remains permanently flexible, accommodating up to 30% total joint movement and will retain elastomeric properties under normal ambient conditions.

Colours / Packaging:

- Grey in 600ml sausages and 10lt pails.
- Off-white in 10lt pails only.



Feature tilt-up panel design incorporating Premium-flex joint sealants.

Advantages

- Water based - can be applied to damp surfaces / wash-up with water
- Adhesion to most common building substrates
- Paintable – offers good adhesion with most common housepaints.
- Durable - Excellent UV and mildew resistance when appropriate premium Exterior Acrylic finish applied.
- Primer is not usually required for most substrates. However, if doubtful, test substrates prior to sealant application.

Limitations

Premium-flex Fyreseal 100 is **not** recommended as a sealant for use in the following situations:

- Do not use for continuous immersion in water e.g. swimming pools, spa baths, etc.
- Do not use for expansion joint in exterior floors or decking.
- Sealant should not be used when both substrates are non-porous, i.e.. one surface should be porous to allow moisture to escape on drying.
- Sealant should not be applied in totally confined areas as very slow cure may result.
- Should not be applied when exposure to rain is likely within 24 hours of application.

Joint design

Refer to our separate technical bulletins and "Product Information Sheet" for information on joint design and general installation procedures etc.



TYPICAL PROPERTIES: of applied sealant as determined after 28 days and storage at 23°C / 50% relative humidity.

<u>Property</u>	<u>Typical values</u>	<u>Test method</u>
Fire rating	Up to 4 hours – depending on design	AS 1530 – Part 4, 1997
Acoustic rating	56 STC in plasterboard partition	ASTM E413-87 for calc. ISO 140/III for method.
Specific gravity	1.60 - 1.62	
Solids by weight	84 - 85%	
UV Resistance	Excellent with appropriate premium exterior finish.	
Break strength	approx. 0.6 MPa	ASTM D2370-8
Elongation at break	250% - 300%	ASTM D2370-82
Cyclic movement capacity.	±15% joint movement	ASTM C-920-87
Peel strength - Concrete	Excellent	ASTM C-920-87
- Masonry	Excellent	ASTM C-920-87
Service temperature	-20°C to 90°C	

Application data

Open time	Approx. 20 mins @ 23°C
Tooling time	up to 10 minutes when temperature below 25°C

Shelf life / Storage

Provided sealant is stored in original unopened container and below 27°C, shelf life will exceed twelve months from the date of delivery.

Use mechanical or solvent cleaning methods i.e.. Methylated Spirits or similar to prepare surfaces. Ensure sealant has good contact with substrate surface. Tool off to a smooth finish if necessary within 10 minutes.

Curing properties - @ 23°C / 50%RH

Premium-flex Fyreseal 100 can be tooled for up to 10 minutes after application, forms a skin within 20 minutes and cures to a depth of approximately 5mm in 7 days. Figures should be used as a guide only as rate of drying will depend on ambient conditions and the nature of the substrates.

Safety instructions

Provide adequate ventilation during application. **Premium-flex Fyreseal100** is non-toxic and non-hazardous. Prolonged skin contact may cause irritation to some individuals. Wash soiled clothing and skin with soap and water before sealant dries. **Uncured sealant may irritate the eyes.** in case of contact, flush eyes with water for 15 minutes. If irritation persists seek medical attention.

Application / Surface preparation

Ensure surfaces are clean dry and free from dust.

Please read MSDS for more information

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use of our products are beyond our control. We recommend that the prospective user determine the suitability of our materials and suggestions before adopting them on a commercial scale