

TECHNICAL DATA SHEET

SabreSeal™ FRA+



Fire Protection

SabreSeal FRA+ Fire Sealant is a high-performance, water-based, acrylic, fire-rated joint sealant designed for interior & exterior construction joints. In suitably designed joints it has a fire rating up to 4 hours and provides an elastic, flexible seal.

Advantages

Fire Resistance: Up to 4 hour fire rating according to AS1530.4

Superior Performance: Excellent adhesion to most common surfaces and permanent flexibility ($\pm 12.5\%$)

Eco-friendly formulation: Water-based and non-toxic

Finishing Excellence: Compatible with surface painting for a flawless finish

Designed for:

- Sealing vertical and horizontal fire-rated joints in concrete panels
- Sealing interior & exterior construction and expansion joints
- Sealing joints in precast panels
- Perimeter sealing of doors and window frames
- Caulking around concrete panels and sealing of concrete

Technical Data

Specification	Typical values
Chemical base	Synthetic Latex Emulsion
Consistency	Paste
Density	1.58±0.05gr/ml
Tack free time	7 mins
Sag	0mm
Elongation at break	140%
Elongation at break after immersion (%)	160%
Shore A hardness	45-55

Fire Rating: Fire resistance according to AS1530.4

Joint Dimensions			Rating According AS1530.4	
Width (mm)	Depth (mm)	Orientation	Integrity (E) (Min.)	Insulation (I) (Min.)
20	15	Vertical	244	244
50	25	Vertical	244	244
15	15	Horizontal	244	244

Vertical joints were tested in a 150mm thick vertical concrete slab. Sealant was applied to both sides and finished flush with the face of the concrete slab.

Horizontal joints were tested in a 150mm thick vertical concrete slab. Sealant was applied to both sides and finished flush with the face of the concrete slab.

Preparation

- Substrate surface must be dry and clean; free of dirt, grease, oil, or standing water
- For a neat finishing, use masking tape and remove it within the working time
- For movement joints, use backing material to avoid 3 sided bonding

Application Direction

- 1 Cut off the end of the sausage and insert into a manual or pneumatic gun. Place the sausage nozzle on top of the sausage, and screw on the cap. Cut back the nozzle to the required size. Apply adhesive sealant to the substrate. **For joint application:** Insert nozzle into joint, apply adhesive sealant moving gun in a forwards direction - never pull backwards as air may be trapped in joint preventing a good seal.

- 2** Tool the sealant within 7 minutes of extrusion before it skins.
- 3** Allow to dry for one hour before applying water-based paint.
- 4** Uncured sealant can be cleaned up with damp cloth.

Joint Design

- The specified sealant bead size should be calculated to comply with the compression and extension capabilities of the sealant in relation to the anticipated joint width due to expansion and contraction
- Minimum bead size should not be less than 6mm to accommodate movement
- Sealant design joint width-to-depth ratio should be 2:1

Clean Up

- Wet sealants can be cleaned up with water
- Cured sealants can only be removed mechanically

Packaging & Colour

Available colour:

- Grey

Packaging size:

600ml sausage (20/carton)

Shelf Life

24 months

Storage

Store in a dry and cool place with temperature below 30 °C. (Do not store below 5 °C)

Limitations

- Not recommended for continuous water emersion and not for PE, PP, Teflon and bituminous surfaces
- If used in exterior applications, we recommend overpainting with a water-based paint to improve long term durability
- Painting over with highly filled emulsion paints can cause cracks in paint film

Health & Safety

Before handling or opening this product, obtain & read the Safety Data Sheet (SDS) available at www.sabreadhesives.com and ensure all safety precautions are followed.

First Aid

If poisoning occurs, contact a Doctor or Poisons Information Centre (Phone Australia 131 126; New Zealand 0800 764 766) and have the SDS and product label at hand.

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IMPORTANT NOTICE

Sabre Adhesives Limited makes no warranties, express or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose. User is responsible for determining whether the product is fit for a particular purpose and suitable for user's method of application. Due to the fact that specific substrates, such as: plastics, polycarbonates, etc, may differ from manufacturer to manufacturer we recommend preliminary compatibility tests. Please remember that many factors can affect the use and performance in a particular application. The materials to be bonded with the product, the surface preparation of those materials, the product selected for use, the conditions in which the product is used, and the time and environmental conditions in which the product is expected to perform are among the many factors that can affect the use and performance of a product. Given the variety of factors that can affect the use of our products some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

LIMITATION OF REMEDIES AND LIABILITY

If the product is proved to be defective, the sole remedy shall be to refund the purchase price or to repair or replace the defective product. Sabre shall not otherwise be liable for loss or damages, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including negligence, warranty, or strict liability.

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