

SabreSeal™ FRA

SabreSeal FRA is a water-based acrylic fire retardant sealant that provides movement capability for fire-rated joint applications. In suitably designed joints, it has a fire rating of up to 4 hours according to AS1530.4:2014. SabreSeal FRA has the additional benefit of containing acoustic properties for sound deadening applications.

Features

- Intumescent acrylic
- Up to 4 hours fire resistance according to AS1530.4
- Sealing of cables, pipes & ducts
- Acoustic properties for sound deadening
- Easy clean up



Applicable Tests / Standards

- Tested in accordance with AS1530.4:2014 as appropriate. Please view the test certificate for specific joint configurations.
- Low VOC - USEPA Method 24 under SCAQMD Rule 1168.

Technical Data

Base	Acrylic emulsion	
Physical State	Soft paste	
Working Time	<10 minutes (at 25 °C & 50% R.H.)	
Colours	White, Grey, Red	
Application Temperature	5 °C – 40 °C	
Service Temperature	-10 °C – 75 °C	
Curing system	Water evaporation	
Density	1.46 g/mL	
Solid content	80 %	
Maximum tensile	0.5 N/mm ²	ASTM D412
Elongation	100%	ASTM D412
Movement capability	±20%	ASTM C 719
Shore A hardness	39	ASTM C661
Low VOC compliance	Yes	SCAQMD Rule 1168
VOC content	3.96 g/L	USEPA Method 24

Application

Indoor joints with fire retardant requirements (wall and ceiling joints, perimeter sealing of fire rated doors and windows). It has good adhesion on most construction materials (concrete, bricks, painted wood, aluminum, etc).

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 sealant designs with depth of over 10 mm, use approved backing materials.

Application Direction

- 1** Surfaces must be clean, dry and free of dirt, grease, oil or water.
- 2** Surfaces should be cleaned with alcohol, M.E.K. or other suitable solvent. Do not use soap or detergent.
- 3** For a neat finish, apply masking tape and remove it before sealant skins over.
- 4** Cut nozzle at 45° angle to desire bead-width and apply to substrate with cartridge gun.
- 5** Tool the sealant within 10 minutes of extrusion before it skins.
- 6** Allow to dry for one hour before applying water-based paint and 24 hours for oil-based paint.
- 7** 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 3 mm 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



300ml/ cartridge (24 cartridges/ 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.
- Painting over with highly filled emulsion paints can cause cracks in paint film.

Caution

Contains a mixture of CMIT/MIT. May produce an allergic reaction. Causes serious eye irritation. Harmful to aquatic life with long lasting effects. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. If eye irritation persists: Get medical advice. Keep out of reach of children. Safety data sheet available on request. For further health and safety information, consult the latest safety data sheet.

Reviewed November 2023
SabreSeal_FRA_TDS_2311

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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