

Technical Data Sheet

AS-1001 Fire Retardant Sealant



Physical Properties

- Base:**
 Water-based acrylic
- Appearance:**
 Soft paste
- Colours:**
 White, grey & red
- Tack-free Time:**
 <15 minutes (at 25 °C & 50% R.H)
- Application Temperature:**
 -20 °C to 50 °C
- Service Temperature:**
 Up to 150 °C
- Storage:**
 Store in a dry and cool place with temperature below 30 °C.
- Shelf Life:**
 24 months

Packaging:

Content	Quantity/ carton
450 g cartridge	24
900 g sausages	20

Description

ALSEAL Fire Retardant Sealant is a one-component, highly qualified, acrylic based firestop sealant that provides movement capability in fire rated joint applications. It has 4 hours fire rating under BS EN 1366-4:2006. The product is almost odor free and is not corrosive towards metals. After applications, the product forms a tough plastic elastic rubber by evaporation of water from the sealant.

Applications

- ◆ Indoor joints with fire retardant requirements (joints between walls and ceiling, joints around pipe and cable work, perimeter sealing of fire rated doors and windows).
- ◆ It has good adhesion on most construction materials (concrete, bricks, painted wood, aluminium, etc.).

Features

- ◆ 4-hour fire rating (BS EN 1366-4: 2006)
- ◆ Smoke, fume, and water resistant
- ◆ Easy clean up

Technical Data

Base	: Acrylic emulsion
Curing system	: Water evaporation
Specific gravity	: Approx. 1.45
Tensile strength (ASTM D412)	: >0.3 N/mm ²
Elongation at break (ASTM D412)	: >100 %
Shore A hardness (ASTM C661)	: 30 – 40
VOC content (USEPA Method 24)	: 74 g/L

Usage Instructions

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 desired bead-width and apply to substrate with cartridge gun.
5. Tool the sealant within 5 minutes of extrusion before it skins. Tack-free in 15 minutes.
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.



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Clean Up

- ◆ Wet sealants can be cleaned up with acetone or mineral spirits.
- ◆ Cured sealants can only be removed mechanically.

Joint Design

- ◆ Joint dimension should be designed by taking into consideration the movement capability of the sealant and the anticipated joint movement
- ◆ Generally the joint width-to-depth ratio is 2:1 for joint width ≥ 12 mm, or 1:1 for joint width < 12 mm
- ◆ Joint width: minimum = 6 mm, maximum = 35 mm *
- ◆ Joint depth: minimum = 6 mm, maximum = 12 mm

* Sealing joints with larger joint width is possible but sealant may sag in vertical applications.

Limitation

- ◆ Among others 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

Keep out of reach of children. Safety data sheet available on request. For further health and safety information, consult the latest safety data sheet.

Disclaimer

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