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Technical Data Sheet

AS-1001

Fire Retardant Gaps Sealer



Physical Properties

Base:
Acrylic emulsion

Appearance:
Soft paste

Standard Colours:
(W10) White
(G10) Grey
(R10) Red

Tack-free Time:
<10 minutes
(at 25 °C & 50% R.H)

Application temperature:
5 °C to 40 °C

Service temperature:
-10 °C to 75 °C

Storage:
Store in a dry and cool place with temperature below 30 °C.

Shelf Life:
24 months

Packaging:

Content	Quantity / carton
450g cartridge	24
900g sausages	20
15kg / pail	-

Description

ALSEAL Fire Retardant Gaps Sealer is a one-component, highly qualified odourless 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. This product is not corrosive towards metals. After applications, the product forms a tough plastic elastic rubber by evaporation of water from the sealant.

Features

- 4-hour fire rating
- ±20 % movement capability
- Non-halogenated
- Smoke, fume, and water resistant
- Easy clean up

Applications

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

Technical Data

Curing system	: Water evaporation
Density	: 1.46 g/mL
Solid content	: 80 %
Ultimate tensile strength (ASTM D412)	: 0.5 N/mm²
Elongation (ASTM D412)	: 100 %
Movement capability (ASTM C719)	: ±20 %
Shore A hardness (ASTM C661)	: 25
VOC content (USEPA Method 24)	: 3.96 g/L

Approvals/ Specifications

AS-1001 meets the requirements of the following specifications:

- BS EN 1366-4:2006 Fire Resistance Tests
- AS 1530.4:2014 Methods for Fire Tests on Building Materials
- ASTM C920, Type S, Grade NS, Class 20, Use NT, M & A
- Low VOC - USEPA Method 24 under SCAQMD Rule 1168
- Good Environmental Choice Australia (GECA) certified

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 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.

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AS-1001
Fire Retardant Gaps Sealer

Clean Up

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

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 6 mm.
- Sealant design joint width-to-depth ratio should be 2:1.

Limitation

- Not recommended for continuous water immersion.
- Not for PE, PP, Teflon, copper 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. 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

Every endeavour has been made to ensure that the information given herein is true and reliable but it is given only for the guidance of our customers. The company cannot accept any responsibility for the loss or damage that may result from the use of the information, due to the possibility of variations of processing or working conditions and of workmanship outside our control. Users are advised to confirm suitability of this product by their own tests.