

KNAUF FIRECAULK SEALANT

Knauf Firecaulk Sealant is a water-based acrylic sealant that has been formulated to provide the right balance of hardness and flexibility for fire rated joint applications.

Designed for sealing indoor joints with fire retardant requirements between walls and ceilings as well as perimeter sealing of fire rated doors and windows, Knauf Firecaulk Sealant has excellent adhesive capabilities to most construction materials such as metal, concrete, plasterboard, bricks, painted wood, aluminium, etc.

Knauf Firecaulk Sealant has good STC acoustic properties when used in appropriate Knauf systems.



Product Benefits

- For fire rated systems
- Good flexibility with $\pm 25\%$ joint movement
- No mixing required
- Smooth finish
- Non-toxic
- Low odour
- Asbestos-free
- Contains no isocyanates
- Easily cleaned

Product Specifications

Base	Acrylic emulsion	
Physical State	Soft paste	
Working Time	< 10 minutes (at 25°C & 50% R.H.)	
Colour	White	
Packaging	10L pail, 450g cartridge	
Shelf Life	24 months	
Storage	Store in a dry and cool place with temperature below 30°C. (Do not store below 5°C)	
Application Temperature	5°C - 40°C	
Service Temperature	-10°C - 75°C	
Curing System	Water evaporation	
Density	1.46g/mL	
Solid Content	80%	
Maximum Tensile	0.5N/mm ²	ASTM D412
Elongation	100%	ASTM D412
Shore A Hardness	25	ASTM C661
Low VOC Compliance	Yes	SCAQMD Rule #1168
VOC Content	3.96g/L	USEPA Method 24
Linear Metre Coverage (Based on 9mm x 9mm Gap)	10L pails = 112 linear metre 308ml cartridge = 3.45 linear metre	

Applications

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

Preparation

- Substrate surface must be dry and clean; free of dirt, grease, oil, or water.
- For a neat finishing, use masking tapes and remove it within the working time.
- For sealant designs with depths of over 10mm, 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.

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 3mm to accommodate movement.
- Sealant design joint width-to-depth ratio should be 2:1.

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

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

Legal Notes

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