

FIRE RATED ACOUSTIC SEALANT (TRADE)

Revision 07/03/2007

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- TECHNICAL DATA:** *Base:* Acrylic dispersion
Consistency: Stable pasta
Curing system: Physical drying
Skin formation (20°C/65%/ R.H.): Ca. 20 minutes
Shrinkage (DIN 52451): Ca. 15%
Specific gravity (DIN 53479B): 1,40 g/mL
Temperature resistance: -20°C to +80°C
Maximum allowed distortion: 10%
* This varies according to ambient conditions such as temperature, humidity, substrate etc.
- PRODUCT:** Fire Rated Acoustic Sealant (trade) is a one-component intumescent plasto-elastic joint sealant based on acrylic dispersions.
- CHARACTERISTICS:** Resist the passage of fire and smoke
Fire resistant up to 4 hours with PE backer rod (EN 1366 Part 4-NBN713.020-BS 476/20)
Intumescent in contact with fire
Swells when exposed to temperatures in excess of 120°C
Stays elastic and can be painted over
Colourfast and waterproof after curing
Very good adhesion on many porous surfaces
Can be painted over after curing
- APPLICATIONS:** Interior fire-resistant applications
Fire-resistant sealing compound for cracks in concrete and plaster
Fire-resistant connection joints in the building industry
Fire-resistant joints with movements up to 10%.
- PACKAGING:** *Colour:* white
Packaging: cartridge 380 ml
- SHELF LIFE:** At least 12 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C. Do not expose to frost.
- SURFACES:** *Type:* All porous building surfaces.
State of Surface: clean, dry, free of dust and grease
Preparation: prepare very porous surfaces with diluted Fire Rated Acoustic Sealant (trade) (1 part Fire Rated Acoustic Sealant (trade) and 2 parts water)
We recommend a preliminary compatibility test.
- JOINT DIMENSIONS:** *Minimum width* 5 mm
Maximum width: 20 mm
Minimum depth: 5 mm
Recommendation: depth = width
Use PE backer rods in case of large joint dimensions to avoid three-sided adhesion

Remark: The directives contained in this documentation are the result of our experiments and of our experience and have been submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible applications which are out of our control, we cannot accept any responsibility for the results obtained. In every case it is recommended to carry out preliminary experiments.

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APPLICATION: *Method:* Apply the sealant by means of a handheld or pneumatic caulking gun. Smoothen the sealant with a filling-knife.
Application temperature: +5°C to +30°C, do not apply when rain or frost are imminent
Clean: Uncured Fire Rated Acoustic Sealant (trade) may be removed from tools with water. Cured sealant must be removed mechanically.
Finishing: with soapy water
Repair: with Fire Rated Acoustic Sealant (trade)

REMARKS: Do not use in applications where continuous water immersion is possible.
 Do not apply when rain or frost is imminent
 Fire Rated Acoustic Sealant (trade) can be painted over with most paints.
 The paint should be sufficiently elastic to be applied on a plasto-elastic sealant.
 A preliminary test is recommended.

HEALTH- AND SAFETY RECOMMENDATIONS: Apply the usual industrial hygiene.
 Consult the label for more information.

APPROVALS: Test Report 9297 – University of Ghent to
 NBN 713.020 – EN 1366-4
 BS 476:Part 20 – Warrington Fire Research Report
 TNO-rapport 2000-CVB-R00703

Test Results – Test Report 9297:

Wall Thickness	Width of Joint	Depth of Joint	Application	Fire Rating
100mm	21mm	20mm	Doublesided	210 min. TI Rating EI 180 240 min. FR Rating E 240
100mm	11mm	10mm	Doublesided	187 min. TI Rating EI 1870 240 min. FR Rating E 240
200mm	20mm	20mm	Doublesided	240 min. TI Rating EI 240 240 min. FR Rating: EI 240

TI = Thermal Insulation; the time during which the temperature on the unexposed side of the wall does not rise by more than 180°C

FR = Flame Resistance; the time during which the joints stops flames from penetrating the wall

Fire Rating: Draft European Commission Decision RG N170 REV.1

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