

## FIRECRYL FR

Revision: 30/03/2006

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### Technical Data:

Base	Acrylic Dispersion
Consistency	Pasta
Curing System	Physical drying
Skin formation (20°C/65% R.H.)	Approx. 20 min.
Shrinkage (DIN 52451)	Approx. 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:

Firecryl FR 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, grey

Packaging: cartridge 310 ml, foilbag 600 ml

### Shelflife:

At least 12 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C. Protect against frost!

### Surfaces:

Type: all porous building surfaces

State of Surface: clean, dry, free of dust and grease

Preparation: prepare very porous surfaces such as plasterboard, cellular concrete etc. with diluted Firecryl FR (1 part Firecryl FR and 2 parts water)  
We recommend a preliminary compatibility test.

### Joint Size:

Minimum Width: 5mm

Maximum Width: 20mm

Minimum Depth: 5mm

Recommendation: joint depth = joint width  
Use PE backer rods in case of large joint dimensions to avoid three-sided adhesion

### Applying the sealant:

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 Firecryl FR may be removed from tools with water. Cured sealant must be removed mechanically.

Finishing: with soapy water

Repair: with Firecryl FR

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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**Revision: 30/03/2006****Page 2 of 2****Remarks:**

- Do not use in applications where continuous water immersion is possible.
- Do not apply when rain or frost is imminent
- Firecryl FR 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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