SOUDAL

Technical Data Sheet

FIRECRYL FR

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
Recommandation: jointh 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

FIRECRYL FR

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℃

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