

FIRECRYL FR

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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%
Reaction to fire (EN 13501-1:2007+A1:2009)	B-s1, d0
Resistance to fire (EN13501-2:2007)	Up to 240min. **

* This varies according to ambient conditions such as temperature, humidity, substrate etc.

** Depending on joint configuration and joint dimensions.

Product:

Firecryl FR is a fire retardant, 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 (tested according to EN 1366-4:2006).
- Intumescent in contact with fire - swells when exposed to temperatures over 120°C .
- Stays elastic.
- can be painted.
- Colourfast and waterproof after curing.
- Very good adhesion on most porous surfaces.

Applications:

- Fire resistant interior 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. Not to be used on natural stone, bitumen, glass, plastics and glass.

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/PU 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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- 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.

Current Approvals:

- Fire resistance classification report 9297D of Warringtonfiregent, dated 31st of January 2012.
- Fire resistance classification report 13492B of Warrintonfiregent, dated 26th of January 2009.
- Classification of fire resistance in accordance with EN 13501-2:2007 of ITB, dated 22nd of February 2010.
- Classification of fire resistance in accordance with EN 13501-2:2007 of ITB, dated 23rd of February 2010.
- Classification report PK-10-074 of Centrum stavebního inženýrství a.s., dated 19th of August 2010: Classification of reaction to fire in accordance with EN 13501-1:2007+A1:2009.

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A\ Linear joints in rigid walls

1. Firecryl FR with Soudafoam FR as backfilling material :

Thickness of the wall (mm)	Density (kg/m ³)	Orientation of the joint	Symmetrical / Asymmetrical	Composition of the joint seal	Classification
115	600	Horizontal	Asymmetrical	The unexposed side is filled throughout a depth of 20 mm with Firecryl FR and is further filled with Soudafoam FR	EI 120 – T – X – F – W 0 to 20
115	600	Horizontal	Symmetrical	The joint is filled on both sides with 3 mm Firecryl FR and is further filled with Soudafoam FR	EI 120 – T – X – F – W 0 to 50
115	600	Vertical	Asymmetrical	The unexposed side is filled throughout a depth of 25 mm with Firecryl FR and is further filled with Soudafoam FR	EI 120 – V – X – F – W 0 to 30
115	600	Vertical	Symmetrical	The joint is filled on both sides with 3 mm Firecryl FR and is further filled with Soudafoam FR	EI 120–V–X-F - W 00 to 40
115	600	Vertical	Symmetrical	The joint is filled on both sides with 3 mm Firecryl FR and is further filled with Soudafoam FR	EI 60 -V-X-F - W 00 to 50
200	550	Vertical	Asymmetrical	The unexposed side is filled throughout a depth of 25 mm with Firecryl FR and is further filled with Soudafoam FR	EI 240–V–X-W 00 to 25
200	550	Horizontal	Asymmetrical	The unexposed side is filled throughout a depth of 15 mm with Firecryl FR and is further filled with Soudafoam FR	EI 240–V–X-W 00 to 15

2. Firecryl FR with a PE-backer / PU-backer rod as backfilling material:

Thickness of the wall (mm)	Density (kg/m ³)	Orientation of the joint	Symmetrical / Asymmetrical	Composition of the joint seal	Classification
200	550	Vertical	Symmetrical	The joint is filled on both sides with 20 mm Firecryl FR with a PU backer rod	EI 240–V–X-W 00 to 20
100	550	Vertical	Symmetrical	The joint is filled on both sides with 20 mm Firecryl FR with a PU backer rod	EI 180–V–X-W 00 to 21 E240 – V-X-W 00 to 21
100	550	Vertical	Symmetrical	The joint is filled on both sides with 10 mm Firecryl FR with a PU backer rod	EI 180–V–X-W 00 to 11 E240 – V-X-W 00 to 11
115	600	Vertical	Asymmetrical	The unexposed side is filled throughout a depth of 20 mm and is further provided with a compressed PU backer rod	EI 60–V–X-F - W 00 to 20 E 90 – V – X – F – W 00 to 20
200	550	Vertical	Asymmetrical	The unexposed side is filled throughout a depth of 15 mm and is further provided with a compressed PE backer rod.	EI 240–V–X-W 00 to 15

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B\ Linear joints in floor constructions

1. Firecryl FR with Soudafoam FR as backfilling material :

Thickness of the floor (mm)	Density (kg/m ³)	Orientation of the joint	Symmetrical / Asymmetrical	Composition of the joint seal	Classification
150	600	Horizontal	Symmetrical	The joint is filled on both sides with 3 mm Firecryl FR and is further filled with Soudafoam FR	EI 120 – H – X –F W 00 to 50
150	600	Horizontal	Asymmetrical	The unexposed side is filled throughout a depth of 25 mm with Firecryl FR and is further filled with Soudafoam FR	EI 120 – H – X –F W 00 to 30

2. Firecryl FR with a PE-backer / PU-backer rod as backfilling material:

Thickness of the floor (mm)	Density (kg/m ³)	Orientation of the joint	Symmetrical / Asymmetrical	Composition of the joint seal	Classification
150	600	Horizontal	Asymmetrical	The unexposed side is filled throughout a depth of 20 mm and is further provided with a compressed PU backer rod	EI 120 – H – X –F W 00 to 20

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