

Firecryl FR

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Technical data

Basis	Acrylic dispersion
Consistency	Paste
Curing system	Physical drying
Skin formation* (23°C/50% R.H.)	Ca. 20 min
Density	Ca. 1,57 g/ml
Maximum allowed distortion (ISO 11600)	Ca. 12.5%
Temperature resistance**	-20 °C → 80 °C
Application temperature	5 °C → 30 °C
Shrinkage	Ca. 15% (DIN 52451)
Fire resistance (EN 13501-2) **	≤ 240 min

* These values may vary depending on environmental factors such as temperature, moisture, and type of substrates. ** This information relates to fully cured product.

(**) this value is dependent on the joint- or penetration seal configuration and the joint- or penetration seal dimensions

Product description

Firecryl FR is a fire-resistant, smoke-tight, with heat load intumescent plasto-elastic sealant based on acrylic dispersion.

Packaging

Colour: white, grey

Packaging: 310 ml cartridge, 600 ml foil bag, 10 L, 200 L drum

Properties

- Prevents the passage of fire and smoke.
- Intumesces when exposed to temperatures higher than 120°C.
- Can be painted over after curing
- Very easy to apply
- Permanently elastic after curing
- Colourfast and waterproof after curing
- Very good adhesion on many porous materials
- M1 emission label

Shelf life

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

Substrates

Substrates: all common porous building substrates

Nature: the substrates to be sealed must be clean, dry and free of dust.

Surface preparation: Highly porous surfaces should be primed with diluted Firecryl FR (1 part Firecryl FR + 2 parts water).

Not suitable for natural stone, bitumen, glass and metal. We recommend a preliminary adhesion test on every surface.

Applications

- Fire-resistant and smoke-tight indoor applications.
- As part of the Soudal Fire Range assortment for penetration seals and joints.
- Sealing of fire retardant joints in walls and ceiling.
- Fire-restardant filling of cracks in concrete and plasterwork.
- Applications where the sealant needs to be overpainted with water based paints and varnishes.

Joint dimensions

Consult the 'Fire Range Installation Instructions Openings and Sealing' on the Soudal website for the correct joint dimensions depending on the required fire resistance.

Application method

Do not apply when rain or frost is imminent during curing process.

Remark: This technical data sheet replaces all previous versions. 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. Since the design, the quality of the substrate and processing conditions are beyond our control, no liability under this publication is accepted. In every case it is recommended to carry out preliminary experiments. Soudal reserves the right to modify products without prior notice.

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Application method: With manual- or pneumatic caulking gun. Finish with a spatula or putty knife.

Cleaning: Before curing, Firecryl FR can be removed with water from substrates and tools.

Finishing: With a soapy solution or Soudal Finishing Solution before skinning.

Repair: With the same material.

Health- and Safety Recommendations

Take the usual labour hygiene into account. Consult the packaging label for more information.

Dangerous. Respect the precautions for use.

Remarks

- Do not use in applications where continuous water immersion is possible.
- Paintable with most paints.
- The paint must be sufficiently elastic to allow application on a plasto-elastic sealant.
- Given the great diversity in available paints it is recommended to do a compatibility test prior to application.

Standards and certificates

- European Technical Approval Firecryl FR - ETA 13/0335
- CE-marked (BCCA - EC conformity CPR)
- Joint Sound Reduction Test by IFT
- Various test and classification reports in various accredited testing institutes: IFT Rosenheim, ITB Poland, Warrington Fire Gent, Warrington Fire Australia, Efectis Netherlands, Efectis France, CSTB France, CSI Italy.
- Testresults for penetration seals and/or joints with Firecryl FR are freely accessible in the 'Fire Range Application manual Penetration seals and Joints' on the Soudal Website. The corresponding certificates can be obtained through the Soudal sales representatives or through the Soudal Website.

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