

## TECHNICAL DATASHEET

Code	Description	Size	Colour
20060	Soudal Firecryl Acrylic Sealant	300ml	White
21427	Soudal Firecryl Acrylic Sealant	600ml	Grey

### 1. Description

Soudal Firecryl Acrylic Sealant is a fire-resistant, smoke tight with heat load intumescent plasto-elastic sealant based on acrylic dispersion that has a high dB attenuation.

### 2. Characteristics

- 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
- Colourfast and waterproof after curing
- Very good adhesion on porous surfaces
- Acoustically rated for sound deadening applications

### 3. Technical Data

<b>Base:</b>	Acryl Emulsion
<b>Application Temperature:</b>	+5°C / +40°C
<b>Flow:</b>	<2mm (ISO 7390)
<b>Density:</b>	1,57g/ml
<b>Skin over time:</b> (23°C/55%)	20 minutes
<b>Shelf life between +5°C and +25°C:</b>	12 months
<b>Joint Movement Capacity:</b>	Ca. 12,5%
<b>MECHANICAL PROPERTIES (2MM FILM)</b>	
<b>Shore A hardness (3 s):</b>	40 MPa (DIN 53505)
<b>100% Modulus:</b>	1 (N/mm <sup>2</sup> ) (DIN 53504)
<b>Elongation at break:</b>	50% (DIN 53504)
<b>FIRE RATING PROPERTIES</b>	
<b>Between concrete/conc. 25mm:</b>	360 minutes (BS476)
<b>Between concrete/conc. 20mm:</b>	360 minutes (CSTB)
<b>VOC (%)</b>	<1%
<b>VOC (g/litre)</b>	<15

\* This can vary according to environmental circumstances such as temperature, humidity, substrate, etc.

<b>STC RATING (NOTE: FULL DETAILS MUST BE READ IN THE MARSHALL DAY ACOUSTICS REPORT)</b>	
<b>Winstone Wallboard System</b>	STC Rating
<b>GBTLA60</b>	59
<b>GBTLA60</b>	55
<b>GBTLA90a</b>	58
<b>GBSLA30a</b>	56
<b>GBSLA60a</b>	55
<b>GBDFA30</b>	56
<b>GBFA60</b>	57
<b>GBSCA30</b>	57
<b>GBSCA60</b>	55

#### 4. Applications

- Specially for indoor joints where high demands for a fire rated sealant are required
- Linear joints in fire retardant constructions in buildings and housing
- Perimeter pointing round door and window frames, concrete and brickwork
- Joints between walls and ceilings
- Joints around pipe and cable tray – Refer to applicable report [www.holdfast.co.nz](http://www.holdfast.co.nz).
- Joints between walls and ceilings or floors (plasterboard and other substrates) where an acoustically rated sealant is required to have STC (Sound Transmission Class) of 60.

NOTE: Joint dimensions do have an effect on the fire retarding properties. The deeper the joints are sealed the better the fire retarding properties. In general Firecryl will show good adhesion without a primer on building materials like concrete, brickwork, painted wood, anodised aluminium and PVC. Please refer to the technical fire reports for specifics.

#### 5. Packaging

Cartridge 300ml & Sausage 600ml (net content)

#### 6. 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. Store in cool, dry conditions out of direct sunlight below 30°C and away from naked flame or source of heat.

#### 7. Building Product Information

**Manufactured By** Soudal NV  
**Distributed By** Soudal Ltd

##### Relevant Building Code Clauses

- Clause B2 DURABILITY: Performance B2.3.1 (b) 15 years and B2.3.1 (c) 5 years
- Clause C3 Fire Affecting Areas Beyond the Fire Source. Performance clauses C3.1, C3.2, C3.3
- Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1.

##### Contribution to compliance With NZBC

Performance B2.3.1 (b) 15 years and (c) 5 years: This product has been evaluated in accordance with B2/VM1. It meets this durability requirement and will remain serviceable for 15 years, or more, when installed and maintained in accordance with the relevant Soudal product technical information. [soudal.co.nz](http://soudal.co.nz). Soudal maintains management and production records within its ISO9001:2015 Quality Management System.

Performance C3.1, C3.2, C3.3: This product has been fire tested in various combinations of sealed joints and /or penetrations with different dimensions and different building components. It contributes to meeting the requirements of C3 only when used in these tested combinations. All fire-rated joints must be designed and specified by a registered fire engineer. For more information, such as test certificates, refer to [soudal.co.nz](http://soudal.co.nz).

Performance F2.3.1: This product meets this requirement when used and applied in accordance with Soudal's product installation instructions and does not present a health hazard to people occupying or using the building. Refer to the Soudal Product Technical Data sheet and product Safety Data Sheet [soudal.co.nz](http://soudal.co.nz) for further information if required.

## 8. Application Instructions

### Surfaces

**Preparation:** Surfaces must be clean, dry and sound. Adhesion tests prior to application are recommended. Finish with white spirit.

### Joints

**Back up material:** Install PEF rod to the right joint depth and in order to prevent three side adhesions.

**Dimensions:**

Minimum Width:	4mm
Maximum Width:	25mm
Joint Connection:	4-8mm (width) – 6mm (depth)
	10-12mm (width) – 8mm (depth)
	14-16mm (width) – 10mm (depth)
	18-20mm (width) – 12mm (depth)
	22-24mm (width) – 14mm (depth)

### Application Limitations

Among others not recommended for continuous water emersion and not for sealing PE, PP, Teflon and bituminous surfaces. Painting over with highly filled emulsion paints can cause cracks in the paint film.

### Approvals

to AS1530.4 and AS4072.1

- EWFA Report No. 23751-02
- EWFA Report No. 45717-02
- EWFA Report No. 55712700.1
- BRANZ Report: FAR 2330 Penetrations and closures in fire rated wall systems
- Various applications with fire doors

#### Linier Joints – Vertical & Horizontal – Aerated Concrete

Wall Thickness (mm)	Gap Width (mm)	Seal Depth (mm)	Backing Material	Seal	FRL
200	25	25	Soudal FR Foam	Exposed	-/240/240
200	15	15	Gorilla PEF	Exposed	-/240/240
200	15	15	Soudal FR Foam	Exposed	-/240/240

#### Linier Joints – Vertical – Aerated Concrete

Wall Thickness (mm)	Gap Width (mm)	Seal Depth (mm)	Backing Material	Seal	FRL
200	20	20	Gorilla PEF	Both Faces	-/240/240
100	21	20	Gorilla PEF	Both Faces	-/240/180
100	11	10	Gorilla PEF	Both Faces	-/240/180

#### Linier Joints – Vertical – Concrete, Masonry, Blockwork, Aerated Concrete

Wall Thickness (mm)	Gap Width (mm)	Seal Depth (mm)	Orientation	FRL
75	20	13	Horizontal/Vertical	-/60/60
100	20	25	Horizontal/Vertical	-/120/120

## 9. Health and Safety Recommendation

- Apply the usual industrial hygiene
- Please refer to the MSDS for more detailed information

### **Remark**

*The directives and data contained in this documentation is provided in good faith and accurately reflect Soudal's knowledge when its products are properly stored, handled and applied under normal conditions in accordance with Soudal's recommendations. In practice, the diversity of the materials, substrates, environments, site conditions, product storage, handling and application are such that no warranty can be given in respect to the merchantability or fit for purpose, of any product. All users must determine the product suitability for their purposes through testing. This technical data sheet and product properties may change without notice so users, suppliers and retailers of Soudal products should always check that the data sheets they have are the latest. To the maximum extent permitted by law, Soudal disclaims all warranties in relation to either the manufacture, storage and end use of the product. All orders are accepted subject to our current terms of trade. **If any clarification is required, please contact Soudal Technical Services or email [info@soudal.co.nz](mailto:info@soudal.co.nz).***

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