

# Sika<sup>®</sup> Firerate

## Fire resistant (intumescent) joint sealant

Construction

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>              | <p>Sika Firerate is a gunnable acrylic based jointing and sealing compound specially formulated with inorganic fillers to provide a fire barrier.</p> <p>Sika Firerate has been tested for fire resistance for up to 4 hours according to AS 1530.4 in masonry wall and floor joints.</p>                                                                                                                                                                                 |
| <b>Uses</b>                     | <p>Sika Firerate is suitable for sealing joints in concrete or masonry that must have a fire rated resistance to Australian Standards.</p> <p>Sika Firerate also fulfils the basic function of a gap filler and joint sealant against water and dust penetration.</p>                                                                                                                                                                                                     |
| <b>Advantages</b>               | <ul style="list-style-type: none"> <li>• Safe to use – contains no asbestos or fibres.</li> <li>• Paintable.</li> <li>• Good flexibility and adhesion to concrete and masonry.</li> <li>• Interior use only.</li> <li>• Easily applied with normal caulking equipment.</li> <li>• Easy tooling off.</li> <li>• Economical – single product for both fire proofing and sealing functions.</li> <li>• Water clean-up of tools and equipment while still uncured.</li> </ul> |
| <b>Storage and Shelf Life</b>   | Stored in the original sealed packaging at temperatures of between 5°C and 35°C, this product will keep for at least twelve (12) months.                                                                                                                                                                                                                                                                                                                                  |
| <b>Instructions for Use</b>     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Surface Preparation</b>      | <p>Joint sides should be clean, sound, dry and free from oil, grease and surface contaminants such as form release agents, curing membranes etc. Thoroughly remove all loose particles and dust.</p> <p>Priming is not normally required. If unsure, refer to Sika's Technical Department for more information.</p>                                                                                                                                                       |
| <b>Application</b>              | Place backer rod to the depth required to achieve the necessary fire rating. Fill the joint with Sika Firerate and tool off the surface taking care to have sufficient material in the joint to achieve the fire rating required.                                                                                                                                                                                                                                         |
| <b>Cleaning</b>                 | Clean all tools and equipment immediately after use with water. Once hardened, the material can only be removed mechanically. Wash soiled hands and skin thoroughly in hot soapy water.                                                                                                                                                                                                                                                                                   |
| <b>Technical Data (Typical)</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Colour</b>                   | Grey                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Density</b>                  | 1.5 kg/litre approx.                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Tack free time</b>           | 10 minutes at 25°C approx.                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Cure time @ 25°C</b>         | <p>5 mm depth @ 24 hours</p> <p>10 mm depth @ 10 days</p>                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Working time</b>             | 15 minutes at 25°C approx.                                                                                                                                                                                                                                                                                                                                                                                                                                                |

**Technical Data (Cont.)**

**Maximum joint** ±20% of average joint width movement at time of sealing

**Packaging** 300 ml cartridge (25 per carton)  
600 ml sausage (20 per carton)  
10 litre pails

**Fire Resistance** Warrington Certificates:  
1. Protecting control joints in concrete slab (SFR41174.1)  
2. Penetration system (RIR 41118A.1).  
Tests were conducted in accordance with AS 1530.4.

**Joint Design** Rated as fire resistant for up to 4 hours in a 2:1 (width:depth) joint.  
Minimum depth: 10 mm  
Maximum width: 50 mm

**Important Notes**

- Not recommended for permanent water immersion, or where high abrasion or chemical resistance is required.
- Can be painted over when tack free with solvent free paint.
- Do not apply Sika Firerate at temperatures below 5°C .
- Protect uncured Sika Firerate from rain or water for approximately 3 days after application, for a 10mm thick joint. Allow longer water-free periods for thicker joints.

**Handling Precautions**

Sika Firerate is non-toxic and non-hazardous, but prolonged skin contact may cause irritation. Wash skin after use with soap and water. A full material safety data sheet is available from Sika on request.

**Sika Firerate Consumption Guide**

| Joint Size<br>(W x D in mm) | Metres/Litre | Metres/Cartridge | Metres/Sausage |
|-----------------------------|--------------|------------------|----------------|
| 10 x 10                     | 10           | 3                | 5              |
| 20 x 10                     | 5            | 1.5              | 2.5            |
| 30 x 15                     | 2.2          | 0.66             | 1.1            |
| 40 x 20                     | 1.25         | 0.38             | 0.63           |
| 50 x 25                     | 0.8          | 0.24             | 0.4            |

**Important Notification**

The information, and, in particular, the recommendations relating to the application and end-use of Sika's products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The proprietary rights of third parties must be observed. All orders are accepted subject of our terms and conditions of sale. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.



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