

Sika® Firerate

Fire resistant joint sealant

Positioning Description	Sika Firerate is a one component, intumescent, gunnable, acrylic based jointing and sealing compound formulated with organic fillers to provide a barrier against fire.
Uses	Sika Firerate is ideal for use as an interior sealant when firerated joints are required between concrete or masonry building components. Examples of its use are: <ul style="list-style-type: none"> • Precast concrete panels joints. • Control joints in masonry blockwork. • Joints between masonry blockwork and concrete beams or soffits. • Sealing around metal ducting/pipework etc.
Advantages	<ul style="list-style-type: none"> • Safe to use - water based, contains no asbestos or fibres. • Good adhesion to concrete and masonry substrates. • One component, ready to use. • Overpaintable when tack free. • Cost effective - minimal waste. • Easy clean up. • Ideal for use in conjunction with Sikaflex sealants. • Non-toxic, non hazardous.
Tests Approvals / Standards	Sika Firerate has been tested in accordance with, and complies with, AS1530 Part 4.
Product Data Form / Type:	Acrylic based intumescent compound containing organic fillers.
Colour:	Available in grey colour for 600ml sausage. Available in grey and white for 375 ml cartridges.
Packaging:	Packaged in 600ml sausages (carton of 15 sausages), 375ml cartridges (carton of 12 cartridges).
Storage & Shelf Life:	Twelve (12) months in unopened original sealed packaging when stored at temperatures between +5°C and +35 °C.
Technical Data	
Density:	1.5 kg/litre approx.
Application temp:	5°C - 30°C.
Working time:	15 minutes (approx.) at 25°C.
Movement capacity:	± 20% of average joint width at time of sealing.
Tack free time:	40 minutes (approx.) at 25°C.
Cure rate:	1 mm depth after 24 hours at 20°C. 3 mm depth after 10 days at 20°C.
Min. joint depth:	10 mm.
Max. joint width:	50 mm.
Joint configuration for general use	<ul style="list-style-type: none"> • Sika Firerate is rated as fire resistant for up to 4 hours in a 2:1 (width : depth) ratio joint. • Minimum depth = 10 mm • Maximum width = 50 mm



Application Conditions

Surface Preparation

Joint sides should be clean, sound, dry and free from oil, grease and surface contaminants such as form release agents, curing membranes, paint coatings etc. Thoroughly remove all dust and loose particles.

Priming

Priming of joints in concrete and masonry is not normally required.

Application

- Protect each outside face of the prepared joint with a layer of masking tape.
- Apply the Sika Firerate using a Sika hand or pneumatically operated sausage gun at an angle to eliminate the inclusion of air pockets. The sealant should be firmly extruded into the joint making sure that it is in full contact with the sides of the joint. Tool off the sealant to achieve a smooth finish. Tooling will also compress the sealant, to promote adhesion to the joint walls.
- Remove masking tape before sealant starts curing.

Cleaning

- Clean tools and equipment immediately after use with water. Cured Sika Firerate can only be removed mechanically.
- For hands and skin wash thoroughly in warm soapy water.

Notes on Application / Limitations

- Not suitable for permanent water immersion.
- Not suitable for use in situations where chemical or abrasion resistance is required.
- Ensure that minimum joint depths and maximum joint widths are adhered to.
- Can be overpainted when tack free with solvent free paints.
- Sika Firerate will not cure at temperatures below 5 °C.
- Protect uncured Sika Firerate from rain or water until it has cured.
- Sika Firerate cures as a result of moisture evaporation from the sealant and the cure rate will be significantly impaired during cold, wet conditions. During this extended cure time extra care must be taken to ensure the sealant does not suffer from water damage. For this reason, Sika Firerate is not generally recommended for exterior use.
- Refer to the "Sikaflex Elastomeric Sealants" data sheet, for information on joint design and calculation of joint movement.

Notes

All technical data stated in this Product Data Sheet are based on tests. Actual measured data may vary due to circumstances beyond our control.

Local Restrictions

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

Health & Safety Information

Protective Measures

- To avoid rare allergic reactions, we recommend the use of protective gloves. Change soiled work clothes and wash hands before breaks and after finishing work.
- Local regulations as well as health and safety advice on packaging labels must be observed.
- For further information refer to the Sika Material Safety Data Sheet which is available on request.
- If in doubt always follow the directions given on the pack or label.

Legal Notes

The information, and, in particular, the recommendations relating to the application and end-use of Sika 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 accordance with Sika's recommendations. 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 user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.



Sika (NZ) Ltd
PO Box 19192
Avondale
Auckland 1746
New Zealand

Phone: 0800 SIKA NZ
Fax: 0800 SIKA FAX
Email: info@nz.sika.com

0800 745 269
0800 745 232
www.sika.co.nz

