

Sikaflex[®]-852 FR

Flame retardant adhesive and sealant

Technical Product Data:

Chemical base	One-component polyurethane
Colour	Mahogany
Density (DIN 53479) (uncured)	1,5 kg/l approx.
Stability (non-sag properties)	Good
Cure mechanism	Moisture-curing
Tack-free time ¹⁾	60 - 90 min.
Rate of cure ¹⁾	3 mm per 24 hrs. (see diagram)
Shore A hardness (DIN 53505)	50 approx.
Tensile strength (DIN 53504)	2,5 N/mm ² approx.
Elongation at break (DIN 53504)	300% approx.
Tensile-shear strength (EN 1465)	1,5 N/mm ² approx.
Fire rating: DIN 54837 / 5510 T2 NFF 16101	S 4; SR 2; ST 2 M 2; F 2
Service temperature (continuous) short term (up to 8 hrs.)	-40°C to +90°C 120°C
Movement accommodation factor	10% of joint width
Shelf life (stored below 25°C)	9 months

¹⁾ at 23°C and 50% relative humidity

Description:

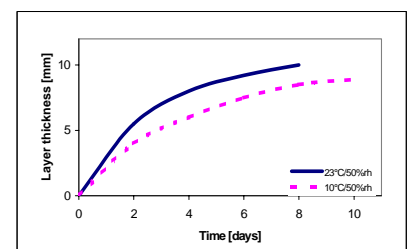
Sikaflex[®]-852 FR is a multi-purpose non-sag one-component polyurethane adhesive/sealant with good fire-retardant properties, which cures on exposure to atmospheric moisture to form a durable elastomer. Sikaflex[®]-852 FR is manufactured in accordance with the ISO 9001/14001 quality assurance system and meets the regulations set out by the International Maritime Organisation (IMO)

Product benefits:

- One-component formulation
- Fire retardant
- Elastic
- Low odour
- Non-corrosive
- Can be overpainted
- Can be sanded
- Bonds well to a wide variety of Substrates

Cure mechanism:

Sikaflex[®]-852 FR cures by reaction with atmospheric moisture. At low temperatures the water content of the air is lower and the curing reaction proceeds at a slower rate (see diagram).



Areas of application:

Sikaflex®-852 FR bonds well to a wide variety of substrates and is suitable for making permanent elastic seals of high adhesive strength.

Suitable substrate materials include timber, metals, metal primers and paint coatings (two-part systems), ceramic materials, glass and plastics.

Seek manufacturer's advice before using on transparent materials that are prone to stress cracking.

Chemical resistance:

Sikaflex®-852 FR is resistant to fresh water, seawater, sewage effluent, dilute acids and caustic solutions; temporarily resistant to fuels, mineral oils, vegetable and animal fats and oils; not resistant to organic acids, alcohol, concentrated mineral acids and caustic solutions or solvents.

The above information is offered for general guidance only. Advice on specific applications will be given on request.

Method of application:

Surface preparation. The faces of the joint must be clean, dry and free from all traces of grease. Where appropriate the adhesion of the sealant can be improved by treating the substrate with Sika® adhesion promoters (please refer to the current Sika® Primer Chart).

Application. Pierce the cartridge membrane and peel back completely.

Cut off the tip of the nozzle to suit joint width and gun Sikaflex®-852 FR into the joint with a suitable hand-operated or compressed-air gun, taking care to avoid air entrapment.

Once opened, packs should be used up within a relatively short space of time.

Do not apply at temperatures below 5°C or above 35°C. The optimum temperature for substrate and sealant is between 15°C and 25°C.

Tooling and finishing. Tooling and finishing must be carried out within the tack-free time of the sealant. Finishing agents must be tested for suitability / compatibility.

Overpainting. Sikaflex®-852 FR can be overpainted when tack-free. The paint must be tested for compatibility by carrying out preliminary trials. Baked enamels should not be applied to Sikaflex®-852 FR until the sealant has attained full cure.

It should be understood that the hardness and film thickness of the paint may impair the elasticity of the sealant and lead to cracking. Note that the use of paint may negatively influence the fire rating.

Removal. Uncured Sikaflex®-852 FR may be removed from tools and equipment with Sika® Remover-208. Once cured, the material can only be removed mechanically.

Hands and exposed skin should be washed immediately using a suitable industrial hand cleanser and water. Do not use solvents!

Important:

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the current Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

Packaging information:

Unipac	600 ml
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Further information:

Copies of the following publications are available on request:

- Primer Chart
- Safety Data Sheet

Note:

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 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 to our current terms of sale and delivery. 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.



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