

Sikadur[®] 51

Flexible epoxy resin jointing compound

Positioning

Description A two component, joint sealing compound based on flexible epoxy resins. Sikadur 51 when mixed is a thixotropic paste with excellent non slump properties. It can be applied using either a trowel, spatula or mastic gun as required.

- Uses**
- Sikadur 51 is ideal for sealing joints with little or no movement in heavy duty concrete floors.
 - Cracks in concrete floors and walls can be ground out and sealed with Sikadur 51.
 - Sikadur 51 is ideal for use in conjunction with Sikafloor and Sikagard epoxy coatings systems.
 - Areas of patching and spalling in concrete can be repaired using Sikadur 51.

- Advantages**
- Easy to mix and apply.
 - Non sag on vertical surfaces.
 - Excellent adhesion to most surfaces.
 - Suitable for use in wide joints.
 - Good mechanical strength.
 - High modulus for joint edge support under heavy wheel loadings.
 - Ideal for use as a flexible adhesive.

Tests Approvals / Standards Tested in accordance with BS6319. Complies with ASTM C881-78, Type 2, Grade 2, Class B & C.

Product Data

Form: Exothermic flexible epoxy resin.

Colour: Concrete Grey when mixed.

Packaging: 3 kg units (Component A + B) = 1.95 litres approx. when mixed.

Storage & Shelf Life: Twelve (12) months in unopened, original containers when stored in cool dry conditions below 25°C.

Technical Data

Density: 1.55 kg/litre

Service temp: - 20°C to 50°C

Application temp: 8°C to 35°C

Shore A hardness: 70 to 80

Elongation at break: Approx. 60%

Tensile strength: 2.5 MPa approx.

Bond strength: Sandblasted Steel = 2.5 MPa approx.

Sandblasted Concrete = 2.0 MPa approx.

Movement capacity: ± 2.5% total movement = 5%

Pot life: 10°C = 120 minutes approx.

20°C = 60 minutes approx.

30°C = 30 minutes approx.

Cure rate: Pedestrian traffic = 1 to 2 days

Heavy vehicle traffic = 2 to 6 days

(both dependent on temperature)

Joint Configuration

- Width : Depth ratio should be 1 : 1 to 1 : 2
- Minimum joint depth should be 12 mm.



Application Conditions	
Surface Preparation	All surfaces must be clean, dry and free from any loosely adhering particles or surface contaminants such as dirt, oil, dust, grease etc.
Backing Rod/ Bond Breaker	<ul style="list-style-type: none"> In open joints the correct depth should be established by inserting Sika PEF Backing Rod of a suitable dimension (refer PEF Rod data sheet). If the joint has a solid formed base it is essential to apply a bond breaker tape to this surface in order to prevent back adhesion. This will then allow the sealant unrestrained movement throughout the depth of the joint.
Priming	<ul style="list-style-type: none"> Not required, except for concrete surfaces that are slightly damp. Use Sikadur 52 as a primer, brush it out to form an even and uniform film thickness. Allow primer to become tacky before applying Sikadur 51.
Mixing	<ul style="list-style-type: none"> Add the entire contents of Component B to Component A. Using a Sika mixing paddle attached to a low speed electric drill (max. 500 rpm) mix together until a smooth streak free paste is achieved.
Application	<ul style="list-style-type: none"> After mixing is complete, load the Sikadur 51 into cartridges, or apply directly from the container using a trowel or spatula. Protect each outside face of the joint with a layer of masking tape. Apply the Sikadur 51 using a Sika hand, or pneumatically operated caulking 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, promoting adhesion to the joint walls. Remove masking tape before sealant starts curing.
Cleaning of Tools	<ul style="list-style-type: none"> Clean all tools and equipment immediately after use with Sika Thinner C. Cured Sikadur 51 can only be removed mechanically.
Notes on Application / Limitations	<ul style="list-style-type: none"> Sikadur 51 is unsuitable for use in high movement joints. Protect against water until hard. Not for use in underwater joints or applications.
Notes	All technical data stated in this Product Data Sheet are based on laboratory 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	<ul style="list-style-type: none"> 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.
Transportation Class	Sikadur 51, Component B has a dangerous goods classification for road transportation. Haz. Class 8, UN No. 1759, Haz. Chem 2X, Packing Group III.
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.



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