

Product Data Sheet

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Sikadur®-S GROUT FIX**Two part pourable epoxy resin based grout****Positioning****Description**

Sikadur-S GROUT FIX is a two part pourable epoxy resin based grout with high strength adhesion to concrete, steel and most other building materials. It has excellent resistance to both physical and chemical attack and is formulated specifically for grouting and levelling.

Use

Sikadur-S GROUT FIX has been designed for grouting in vertical starter bars during construction, grouting in holding down bolts into existing concrete, levelling chipped or spalled concrete floors, machine and column base grouting and as a general purpose pourable grout.

Advantages

- Outstanding cohesive and adhesive strength.
- Excellent adhesion to concrete, metal and most other surfaces.
- Will adhere to damp concrete.
- Pourable.
- Fast curing.
- Cures with negligible shrinkage.
- Excellent chemical and water resistance.

Product Data

Form: Uncured: Two parts, paste

Colour: Light grey

Storage & Shelf Life: Shelf life 12 months when stored in original containers in a dry place below 35°C.

Packaging:

- Sikadur-S GROUT FIX is supplied in 1 litre and 4 litre units.
- Each unit consists of hardener (Part A) and compounded resin (Part B), packaged in separate containers in the correct ratios.

Coverage

1m² at 1mm thick/litre

Technical Data

Specific gravity: Part A: 1.48, Part B: 1.53, Mixed: 1.50

Solids content: 100%

Chemical change: Chemical cure

Application temperature: Optimal application temperatures are between +10°C to 30°C. (GROUT FIX will not cure at temperatures below +5°C)

Service Temperature: Minus 40°C to +60°C

Toxicity: Non-toxic when cured

Physical strengths: Tensile strength: 23.5 N/mm² (ASTM C307-83 revised 88)

(Cured at 25°C / 7 days) Compressive strength: 110 N/mm² (ASTM 579-82)

Chemical resistance

Excellent to common acids, alkalis and solvents

Thermal expansion: Coefficient of linear expansion 5.0 x 10⁻⁵ cm/cm/°C (ASTM C531-85)

Shrinkage: <0.01 % (ASTM C531-85)

Electrical resistance: 10⁸..cm

Pot Life: 30 minutes at 25°C 15 minutes at 35°C

Curing/Strength: Initial cure 24 hours at 25°C yields >70 N/mm²

Final cure 7 days at 25°C yields 110 N/mm²

75-80% of final strength is achieved after 48 hours at 25°C

Coverage: 1 litre will fill an area 1m² at 1mm thickness, or a 100mm x 100mm x 100mm cube.

Application Conditions**Instructions for use**

- Use only when the temperature is between 5°C and 50°C on day of application and following 96 hours, otherwise incomplete cure and poor adhesion will result.
- Do not use over paint films, unsound plaster or unsound concrete.
- Excessive exposure to freezing temperatures may cause the part B to solidify.
- In this case, heating to 50°C for one to two hours will reliefs the product, which then must be cooled to below 25°C before mixing.



Surface Preparation	<ul style="list-style-type: none"> All surfaces must be clean, dry and free from any loosely adhering particles or contaminants such as dirt, oil, dust, grease, etc. The surface must be free from any standing water. All cement laitance should be removed by scabbling, sandblasting, etc. Steel surfaces must have all paints, films, oils, rust and other contaminants removed by grit blasting. Apply GROUT FIX immediately after blasting to prevent rust from reoccurring. Thoroughly clean holes drilled for bolts and starter rods by air blasting, with oil free air. Epoxy surfaces must be sanded then washed clean with Sika Thinner C.
Mixing	<ul style="list-style-type: none"> Part A and Part B are packed in the correct proportions. ALWAYS MIX WHOLE UNITS. Thoroughly mix both parts separately, and then add ALL of Part A to ALL of Part B. Add the entire contents of Part A to Part B. Thoroughly mix using a Sika mixing paddle attached to a low speed electric drill (max. 500 rpm) for at least five minute until a uniformly mixed, lump free, pourable grout is achieved. Incorrectly mixed compound will not cure correctly. In colder conditions, storing at approximately 25°C for 12 hours prior to use will make mixing easier. Do not add solvents. Do not mix and hold in bulk as this will hasten curing.
Application	<ul style="list-style-type: none"> After mixing Sikadur-S GROUT FIX can be applied immediately, and should be applied within 30 minutes. Pour GROUT FIX into the prepared hole, void or water-tight formwork and allow to self level. Crimping the side of the tin to create a funnel can assist pouring. When grouting under bearing pads or base plates, ensure there is adequate head/pressure to maintain flow. This is essential to ensure that no air is entrapped under the base plate. Rodding or vibrating under the plate is also recommended to remove any air. Pour the grout continuously until the fluid rises above the level of the base plate. Air holes or breather pipes should be fitted to formwork where entrapment of air may occur. When grouting starter bars, holding down bolts, etc. pour GROUT FIX into the base of the hole then drop in the bar. A slight overflow should occur at the top when the bar is inserted. Once Sikadur-S GROUT FIX becomes difficult to apply, discard, as working life has been exceeded. Do not attempt to remix and do not add solvents. Do not mix and hold in bulk as this will hasten curing. When used for grouting in starter bars and bolts, the bars and bolts should be supported for at least 6 hours to prevent movement while the material cures.
Tooling	Sikadur-S GROUT FIX can be tooled off with a steel trowel or float, which has been kept clean with white spirit.
Cleaning	<ul style="list-style-type: none"> Detergent solution can be used to clean up uncured material on hands or equipment, or alternatively, use Sika Thinner C. Do not use these solvents on skin. Wash hands thoroughly with an industrial hand cleaner.
Important Notes	
Limitations	Sikadur-S GROUT FIX is recommended for use only as described in the Uses section of this datasheet.
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 Instructions

Warning

Sikadur-S GROUT FIX may be harmful if swallowed or inhaled and may cause skin or eye irritation.

Precautions

- Wear protective (PVC) gloves and eye protection when mixing or using.
- Epoxy materials are skin sensitising to some people.
- Ensure there is adequate ventilation during mixing and using.

First Aid

Swallowed:

- Do not induce vomiting, give a glass of water to dilute and contact a doctor immediately.

Skin:

- Remove contaminated clothing, wash skin with warm, soapy water. Do not scrub.

Inhaled:

- Remove person to fresh air. Obtain medical advice if breathing becomes difficult.

Eyes:

- Hold open and flood with water for at least 15 minutes. Obtain medical advice.
- For emergency information contact 0800 734 607.

Disposal

- If spilt, absorb with clay, sand or earth.
- Collect and seal in properly labelled metal containers.
- Dispose of according to local authority regulations.
- Do not dispose of down drains or into local waterways.

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.

Transport

Sikadur-S GROUT FIX Component A has a dangerous goods classification for transportation: Haz. Class 8, UN. No. 1760, Haz. Chem. 2R, Packing Group III.

Important Notes

- Residues of material must be removed according to local regulations. Fully cured material can be disposed of as household waste under agreement with the responsible local authorities.
- Detailed health and safety information as well as detailed precautionary measures e.g. physical, toxicological and ecological data can be obtained from the safety data sheet.

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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