

PRODUCT DATA SHEET

Sikadur® UA

Non slump epoxy resin repair mortar/putty

DESCRIPTION

Sikadur® UA is a solvent free, non slump, two component epoxy resin patching mortar, containing blended high strength fillers. When Sikadur® UA is mixed it has a soft putty like consistency making it ideal for general patching and repair work.

USES

- Underwater applications
- Filling and patching concrete floors, pipes, tanks, etc.
- Repairing and reprofiling damaged precast and insitu concrete components
- Bonding concrete blocks, bricks, ceramics, etc.
- Bonding precast concrete pipes

CHARACTERISTICS / ADVANTAGES

- Easy to mix and apply using either trowel, spatula or gloved hand.
- Suitable for application to both dry and damp surfaces.
- Adheres well to wet or submerged concrete or steel.
- Can be applied underwater.
- Excellent non-sag properties for vertical and overhead work.
- Does not shrink when hardened.
- High abrasion resistance.
- Excellent adhesion to concrete, steel, timber and many other substrates.
- Both components have different colours to ensure thorough mixing.

PRODUCT INFORMATION

Chemical Base	Non-slump epoxy resin putty.
Packaging	1 litre, 4 litre, 8 litre and 20 litre units
Colour	Part A = White / Part B = Black. Concrete Grey colour when mixed.
Shelf Life	Nine (9) months from date of manufacture when stored as stated.
Storage Conditions	Store in unopened original containers in dry conditions between +5°C and +25°C.
Density	2.0 kg/litre approx.

TECHNICAL INFORMATION

Shore D Hardness	90
Compressive Strength	7 days = 60 - 70 MPa (at 20°C)
Shrinkage	Negligible

APPLICATION INFORMATION

Mixing Ratio	Mix ratio of Part A : Part B = 1 : 1 (by volume).
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Layer Thickness	Up to 40 mm in one layer
Ambient Air Temperature	Application temp: +4°C to +35°C
Pot Life	Approx. 60 minutes (0.5 litre mix at +20°C)

BASIS OF PRODUCT DATA

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.

LIMITATIONS

- Sikadur® UA will not cure at temperatures below +5°C.
- Optimal application temperatures for Sikadur® UA are between +10°C and +30°C.
- The stated pot life for Sikadur® UA is based on a mixed volume of 500 mls. Pot life decreases as mixed volumes increase.
- Do not add water to Sikadur® UA when mixing. The addition of water will have a negative effect on strength and performance.
- Do not finish Sikadur® UA using solvent.
- To avoid shrinkage caused by exotherm Sikadur® UA should not be applied in layers greater than 40 mm per application.
- Underwater application suited for patching smaller fissures and holes. Larger and thicker application could slump if the Sikadur® UA is not contained and supported.

ECOLOGY HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

- All concrete surfaces must be clean and free from any loosely adhering particles or contaminants such as dirt, oil, dust, grease, etc.
- 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 Sikadur® UA immediately after blasting is completed.
- Cementitious substrates should be pre-wetted to a saturated surface dry (SSD) condition just prior to application.

MIXING

- Mix equal proportions of resin (Part A) and hardener (Part B) on a clean board with a spatula or steel trowel. Mix thoroughly until an even streak free grey colour is achieved. Sikadur® UA can also be mixed together by 'kneading' with gloved hands (keep gloves wet to prevent epoxy sticking during 'kneading').
- Mix ratio of resin (Part A) : hardener (Part B) = 1 : 1 (by volume).

APPLICATION METHOD / TOOLS

Adhesive bonding: When used as an adhesive the mixed Sikadur® UA should be applied to both surfaces to be bonded, using a spatula, trowel or gloved hand. Ensure that the epoxy is forced well into the bond surfaces to ensure intimate contact between the Sikadur® UA and the substrates.

Patching/repair work: For patching and repair work the mixed Sikadur® UA can be applied to the prepared surface or void using either a trowel, spatula or gloved hand. Ensure that the epoxy is forced well into the repair surface to ensure its intimate contact with the substrate. Once the repair has been completed the surface can be finished with a steel float or trowel to achieve the desired effect. For large volume, corner repairs it may be necessary to install formwork to one side of the void for easier application.

CLEANING OF TOOLS

Clean all tools and equipment immediately after use with fresh water. It is recommended that protective gloves and clothing be worn during application, however, uncured Sikadur® UA may be removed from skin with warm soapy water. Cured Sikadur® UA can only be removed mechanically.

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.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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