

## PRODUCT DATA SHEET

# Sikadur<sup>®</sup>-43 ZA

## Three component epoxy repair mortar

### DESCRIPTION

Sikadur<sup>®</sup>-43 ZA is a solvent-free, three-component, repair and filling mortar based on a combination of epoxy resins and selected high strength aggregates. After mixing, it forms a trowelable mortar with good adhesion to cementitious substrates.

### USES

Sikadur<sup>®</sup>-43 ZA may only be used by experienced professionals.

Sikadur<sup>®</sup>-43 ZA is a high strength material that is used as a bedding or underfilling mortar or to repair horizontal concrete surfaces, such as:

- Industrial floors
- Bridge Decks
- Concrete pavements
- Bearing pads
- Floor joint nosings

### CHARACTERISTICS / ADVANTAGES

- Easy to mix and apply
- Shrinkage-free hardening
- High mechanical strength
- High tensile strength
- Curing is not affected by high humidity
- Suitable for both dry and damp surfaces
- Rapid hardening
- Abrasion and impact-resistant

### PRODUCT INFORMATION

<b>Packaging</b>	Pre-batched units	
	Component A + B	3.0 litre resin
	Component C	2 X 15kg bags
<b>Shelf Life</b>	24 months from date of production	

<b>Storage Conditions</b>	Store in original, unopened, sealed and undamaged packaging in dry conditions at temperatures between +5°C and +30°C. Protect from Direct sunlight.	
<b>Density</b>	2.10 kg/l $\pm$ 0.1 kg/l (components A+B+C mixed) (at 23°C)	
<b>Compressive Strength</b>	70 N/mm <sup>2</sup> after 7 days at 23°C	
<b>Tensile Strength in Flexure</b>	25 N/mm <sup>2</sup> after 7 days at 23°C	
<b>Tensile Strength</b>	12 N/mm <sup>2</sup> after 7 days at 23°C	
<b>Tensile Adhesion Strength</b>	<u>3.5 N/mm<sup>2</sup></u>	<u>(concrete failure)</u>
	<u>10 N/mm<sup>2</sup></u>	<u>(Steel)</u>

## APPLICATION INFORMATION

<b>Layer Thickness</b>	6mm - 60mm	
<b>Ambient Air Temperature</b>	Min. 5°C - Max. 35°C	
<b>Relative Air Humidity</b>	80%	
<b>Dew Point</b>	Substrate temperature must always be at least 3°C above the dew point.	
<b>Substrate Temperature</b>	Min. 5°C - Max. 30°C	
<b>Waiting Time / Overcoating</b>	<u>Initial Cure</u>	<u>~4 hours</u> at 23°C
	<u>Light Traffic</u>	<u>~12 hours</u> at 23°C
	<u>Full cure</u>	<u>~7 days</u> at 23°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

Always ensure good ventilation when using Sikadur®-43 ZA in a confined space.

Freshly applied Sikadur®-43 ZA should be protected from damp, condensation and water for at least 12 hours.

Concrete should be a minimum of 28 days old and the moisture content less than 4% before application.

The normal precautions pertaining to dew point should be observed.

## ECOLOGY HEALTH AND SAFETY

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY

The concrete substrate must be sound and of sufficient compressive strength (min. 20 N/mm<sup>2</sup>) with a minimum pull off strength of 1.5 N/mm<sup>2</sup>.

The surface must be dry and free of all contaminants such as oils, grease, coatings and surface treatments etc.

The substrate must be prepared mechanically to remove cement laitance and achieve a profile open textured surface.

Weak concrete should be removed and surface defects such as honeycombed areas, blowholes and voids must be fully exposed.

Repairs to substrate, filling of blowholes/voids and surface levelling should be carried out using the appropriate product from the Sikafloor®, Sikadur® and Sikagard® range of materials.

### SUBSTRATE PREPARATION

All surfaces must be clean, sound and properly cured. Remove all loose materials mechanically, with a wire brush, or by water or grit blasting.

Surfaces may be dry or damp, but must be free of any standing water.

Use mixed components Sikadur®-43 ZA (Components A & B) or Sikafloor® 161 Primer to prime the substrate. On damp surfaces use Sikadur® -31DW. Apply with a stiff brush and work in well.

## MIXING

Mix full kits only.  
Mix component A thoroughly with component B for 1-2 minutes using a spatula, then add the aggregate (component C) and continue mixing with a slow speed mechanical mixer, until a homogeneous mortar is achieved.

## APPLICATION METHOD / TOOLS

Whilst the primer is still tacky, spread the mixed Sikadur®-43 ZA (Components A & B & C) into the tacky primer and compact into place to remove any entrapped air, and then trowel firmly to provide a smooth finish. The surface of the Sikadur®-43 ZA may also be sealed with a coat of Sikafloor®-161 Primer or Sikadur®-43 ZA (components A+B).

## CLEANING OF TOOLS

Remove uncured Sikadur®-43 ZA from tools with Colma Cleaner immediately after use. Cured material 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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