

# Sikadur<sup>®</sup>-43 HS

## Epoxy resin mortar

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### Product Description

Sikadur<sup>®</sup>-43 HS is a 3- part repair and filling mortar based on a combination of epoxy resins and selected high strength aggregates.

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### Uses

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

- Industrial floors
- Kerbstones
- Bridge bearings
- Foundation slabs
- Crane rails
- Joint arrises in highways
- Concrete runways
- Industrial floors
- Abrasion and impact resistance wearing layers

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### Characteristics / Advantages

Sikadur<sup>®</sup>-43 HS is an economical material with the following beneficial properties:

- Rapid hardening
- Shrinkage-free hardening
- High mechanical strengths
- Hardens even at high humidity
- High resistance against abrasion, impact and vibration
- Can be applied onto dry and damp substrates (no standing water)

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### Product Data

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#### Form

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**Appearance / Colour**      Grey Sand

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**Packaging**                      22 kg sets (parts A + B + C)

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#### Storage

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**Storage Conditions / Shelf Life**      2 years from the date of production when stored in original unopened packaging in a cool, dry place. Keep away from direct sunlight.

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Construction



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## Technical Data

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<b>Density (at +20°C)</b>	■ Sikadur®-43 HS (parts A + B + C)	~ 2.0 kg per litre (mixed mortar)
	■ Sikadur®-43 HS Primer (parts A + B)	~ 1.05 kg per litre

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<b>Coefficient of Thermal Expansion</b>	21 x 10 <sup>-6</sup> per °C (temperature range -20 to +60°C)
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## Mechanical / Physical Properties

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<b>Compressive Strength</b>	~ 95 N/mm <sup>2</sup> (10 days, +20°C, 65% r.h.)
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<b>Flexural Strength</b>	~ 25 N/mm <sup>2</sup>
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<b>Bond Strength</b>	■ To concrete primed with Sikadur®-43 HS (1 day, LP, +35°C, 65% r.h.)	~ 3 N/mm <sup>2</sup> (concrete failure)
	■ To grit blasted steel with Sikadur®-43 HS Primer (DIN 53232)	~ 10 N/mm <sup>2</sup>

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<b>Modulus of Elasticity</b>	27,000 N/mm <sup>2</sup> (static)
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## System Information

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### Application Details

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<b>Typical Yield</b>	22 kg sets yields 11 litres of mortar
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<b>Substrate Preparations</b>	All surfaces must be clean, free from oil, grease, old coatings, laitance, standing water and all loosely adhering particles. Sandblasting, high pressure water-jetting, grinding or scabbling of substrate is necessary.
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<b>Priming</b>	Prime with Sikadur®-43 HS Primer for dry substrate. On damp substrates (no standing water) use Sikadur®-31 LP as primer, work well into substrate. Always work wet-on-wet on the bonding bridge/primer.
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### Application Instructions

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<b>Mix Ratio</b>	■ Sikadur®-43 HS part A : B : C	2 : 1 : 30 parts by weight 2 : 1 : 19 parts by volume
	■ Sikadur®-43 HS Primer part A : B	2 : 1 parts by weight/volume

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<b>Mixing</b>	Mix all of Part B (hardener) with all of Part A (resin) for at least 2 minutes with a slow speed electric drill (maximum 500 rpm) until a smooth consistency and streakfree colour is achieved.  Then add all of Part C (aggregates) and continue mixing until a homogeneous mortar is obtained. Use immediately.
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<b>Application Method / Tools</b>	Whilst the primer is still tacky, spread the mixed Sikadur®-43 HS and manually compact. Then trowel firmly into place.
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<b>Potlife</b>	Temperature	10 kg	2 kg
	+40°C	30 minutes	50 minutes
	+30°C	45 minutes	100 minutes
	+20°C	60 minutes	200 minutes

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<b>Cleaning of Tools</b>	Clean all tools and application equipment with Sika® Colma Cleaner immediately after use. Hardened and/or cured material can only be mechanically removed.
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## Notes on Application / Limitations

- For external applications, seal surface of Sikadur<sup>®</sup>-43 HS mortar with Sikafloor<sup>®</sup>-94 MY
- Maximum thickness per layer for levelling or filling is 5 cm (1.5 cm for large areas)
- Minimum age of new concrete is 3 – 6 weeks, depending on climate
- Application and substrate temperature is +5 to +30°C

## Value Base

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.

## Health and Safety Information

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

## Legal 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 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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