

PRODUCT DATA SHEET

Sikadur®-43 HS

EPOXY RESIN MORTAR

DESCRIPTION

Sikadur®-43 HS is a 3 parts repair and filling mortar based on a combination of epoxy resins and selected high strength aggregates.

USES

Sikadur®-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

CHARACTERISTICS / ADVANTAGES

Sikadur®-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)

PRODUCT INFORMATION

Packaging	22 kg sets (parts A + B + C)	
Shelf Life	12 months from the date of production, if stored in undamaged, original sealed packaging, and if storage conditions are met.	
Storage Conditions	Sikadur®-43 HS shall be stored in cool and dry conditions, where it is protected from direct sunlight, rain and water.	
Density	Sikadur®-43 HS (parts A + B + C)	~2.1 kg/l (mixed mortar)
	Sikadur®-43 HS Primer (parts A + B)	~1.05 kg/l

TECHNICAL INFORMATION

Compressive Strength	7 days	~95 N/mm ² (at +25 °C, 65 % r.h.)	(ASTM C 579)
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APPLICATION INFORMATION

Mixing Ratio	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
Layer Thickness	Max. 50 mm / For large areas 15 mm	
Ambient Air Temperature	+5 °C min. / +35 °C max.	
Substrate Temperature	+5 °C min./ +35 °C max.	
Pot Life	Temperature	10 kg
	+40 °C	30 minutes
	+30 °C	45 minutes
	+20 °C	60 minutes
		2 kg
		50 minutes
		100 minutes
		200 minutes

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

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.

SUBSTRATE PREPARATION

Prime with Sikadur®-43 HS Primer for dry substrate. On damp substrates (no standing water) use Sikadur®-31 CF as primer, work well into substrate. Always work wet-on-wet on the bonding bridge/primer.

MIXING

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 streak-free colour is achieved.

Then add all of Part C (aggregates) and continue mixing until a homogeneous mortar is obtained. Use immediately.

APPLICATION METHOD / TOOLS

Whilst the primer is still tacky, spread the mixed Sikadur®-43 HS and manually compact. Then trowel firmly into place.

CLEANING OF TOOLS

Clean all tools and application equipment with Sika® Colma Cleaner immediately after use. Hardened or cured material can only be mechanically removed.

IMPORTANT CONSIDERATIONS

- For external applications, seal surface of Sikadur®-43 HS mortar with Sikafloor®-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

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.

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.

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.

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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