

## PRODUCT DATA SHEET

## Sikafloor®-91 HD

## HIGH STRENGTH EPOXY MORTAR

## DESCRIPTION

A three-component solvent-free mortar screed based on epoxy resins.

## USES

Sikafloor®-91 HD may only be used by experienced professionals.

As a non-slip, abrasion-resistant epoxy resin floorings of 5-8 mm thickness:

- Industrial floorings subject to moderate or heavy loading
- Workshop and factory floors
- Machine shops and warehouses
- Depots and loading ramps
- Hangars
- Stairs

Suitable for use on ventilated or non ventilated substrates such as:

- Concrete and mortar

## CHARACTERISTICS / ADVANTAGES

- Easy and fast to apply
- Solvent-free, no fire risk
- Excellent adhesion to substrate
- Non-slip, non-skid finish
- Excellent abrasion resistance
- High mechanical strength
- Permeable to water vapour

## PRODUCT INFORMATION

|                     |                                                                                                                                                                 |           |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Chemical Base       | Epoxy                                                                                                                                                           |           |
| Packaging           | A+B                                                                                                                                                             | 4 kg Unit |
|                     | C                                                                                                                                                               | 28 kg Bag |
|                     | A+B+C                                                                                                                                                           | 32 kg Set |
| Appearance / Colour | Natural                                                                                                                                                         |           |
| Shelf Life          | 12 months from date of production if stored properly in original unopened packing.                                                                              |           |
|                     | Note:<br>Component (A), Sikafloor®-91 HD, must be thoroughly stirred with a mechanical stirrer prior to each batching.<br>Segregation may occur after 10 hours. |           |
| Storage Conditions  | Store in dry condition at temperature between +5°C and +30°C                                                                                                    |           |
| Density             | 2.1 - 2.2 kg /litre for finished screed                                                                                                                         |           |

## TECHNICAL INFORMATION

|                           |                                          |
|---------------------------|------------------------------------------|
| Compressive Strength      | > 90 N/mm <sup>2</sup>                   |
| Tensile Adhesion Strength | > 2 N/mm <sup>2</sup> (Concrete Failure) |

## APPLICATION INFORMATION

|                            |                                                                                                                                                                      |                                                         |         |         |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|---------|---------|
| Mixing Ratio               | Parts by Weight                                                                                                                                                      |                                                         |         |         |
|                            | A                                                                                                                                                                    | 3.3                                                     |         |         |
|                            | B                                                                                                                                                                    | 0.7                                                     |         |         |
|                            | C                                                                                                                                                                    | 28                                                      |         |         |
| Consumption                | Sikafloor® - 161                                                                                                                                                     | ~ 0.3 - 0.5 kg/m²<br>(depending on substrate condition) |         |         |
|                            | Sikafloor®-91 HD                                                                                                                                                     | ~ 2 - 2.2 kg/m²/mm                                      |         |         |
|                            | These figures are theoretical and do not include for any additional material required due to surface porosity, surface profile, variations in level and wastage etc. |                                                         |         |         |
| Substrate Temperature      | Minimum substrate temperature: + 8°C<br>Maximum substrate temperature: + 30°C<br>Substrate temperature must be 3°C above measured dew-point                          |                                                         |         |         |
| Substrate Moisture Content | <4%                                                                                                                                                                  |                                                         |         |         |
| Pot Life                   | 10°C                                                                                                                                                                 | 20°C                                                    | 30°C    |         |
|                            | 60 min.                                                                                                                                                              | 45 min.                                                 | 20 min. |         |
| Curing Time                |                                                                                                                                                                      | 10°C                                                    | 20°C    | 30°C    |
|                            | Can be walked on after                                                                                                                                               | 36 hrs.                                                 | 24 hrs. | 12 hrs. |
|                            | Light mechanical loading possible after                                                                                                                              | 3 days                                                  | 2 days  | 2 days  |
|                            | Fully cured after                                                                                                                                                    | 10 days                                                 | 7 days  | 5 days  |

## SYSTEM INFORMATION

|         |               |                          |
|---------|---------------|--------------------------|
| Systems | Primer        | Sikafloor® - 161         |
|         | Mortar Screed | Sikafloor®-91 HD (A+B+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.

## 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

### MIXING

Stir Component (A) thoroughly with an electric stirrer prior to batching. Add Component (B) in the correct mix ratio and mix for 2-3 minutes at a low speed. Place the correctly batched quantity of Component (C) in the mixer (forced action type). Add the prepared resin mix (Components A+B) while the mixer is running, and continue to mix until a homogeneous and uniformly moist mix is obtained.

### APPLICATION

Place the mortar while the primer coat is still tacky, and rake out evenly. Level with a beam laid across steel screeding rails and finish with a steel float.

## CLEANING OF TOOLS

- Clean all tools and equipment immediately after use with Colma Cleaner.
- Once hardened, the material can only be removed mechanically.
- Wash soiled hands and skin thoroughly in hot soapy water.

## 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.

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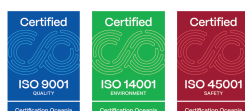
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### Product Data Sheet

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