

## PRODUCT DATA SHEET

# Sikalastic®-152 BH

### FIBRE-REINFORCED CEMENTITIOUS MORTAR FOR FLEXIBLE WATERPROOFING AND CONCRETE PROTECTION

#### DESCRIPTION

Sikalastic®-152 BH is a two-component, crack-bridging, fibre-reinforced cementitious mortar, with low elastic modulus with special additives for waterproofing and protection of concrete subgrades subject to flexural strain.

Suitable for use in hot and tropical climatic conditions

#### USES

- Flexible waterproofing and protection of hydraulic structures such as basins, tanks, concrete piping, bridges and canals
- Waterproofing of bathrooms, shower, terraces, balconies, swimming pools before the application of ceramic tiles bonded with adhesives
- Waterproofing and protection of outer walls to be buried into the ground
- Inside waterproofing of light counter pressure water of walls and floors in basements
- Protective, anti-carbonation coating of concrete surfaces

#### CHARACTERISTICS / ADVANTAGES

- Flexible waterproofing and concrete protection in one product
- Very good crack-bridging abilities, also at low temperature
- Resistance against de-icing salts and carbon dioxide
- Reliable application also in very humid environment
- All components ready delivered, no additional mixing water required
- Applicable also on lightly humid subgrades
- Non sagging: easy application also on vertical walls
- Excellent adhesion onto lots of substrates such as concrete, cement mortars, stone, masonry

#### PRODUCT INFORMATION

<b>Composition</b>	Cement modified with polymers, selected alkali-resistant aggregates, microsilica and fibres.				
<b>Packaging</b>	Ready batched 33 kg units: <table border="1" style="width: 100%;"> <tr> <td>Comp. A</td> <td>8 kg</td> </tr> <tr> <td>Comp. B</td> <td>25 kg</td> </tr> </table>	Comp. A	8 kg	Comp. B	25 kg
Comp. A	8 kg				
Comp. B	25 kg				
<b>Shelf life</b>	12 months from date of production				
<b>Storage conditions</b>	Store properly in the original packaging, in cool and dry conditions. Protect from water.				
<b>Appearance and colour</b>	Grey				

#### SYSTEM INFORMATION

## System structure

For bonding tiles or equivalent materials directly on Sikalastic®-152 BH, use minimum a SikaCeram® C2 type according to EN 12004 or an adhesive compatible with Sikalastic®-152 BH. May perform preliminary adhesion tests. The application can take place after the second layer has fully cured.

## APPLICATION INFORMATION

Mixing ratio	Component A : Component B = 8 : 25 (by weight)										
Fresh mortar density	~1.7 kg/l										
Consumption	This depends on the substrate roughness; as a guide: ~1.7 kg/m <sup>2</sup> /mm. This figure is theoretical and does not include for any additional material required due to surface porosity, surface profile, variations in level and wastage etc.										
Layer thickness	2 mm with constant thickness, applied in minimum 2 layers (maximum recommended thickness per layer is 2 mm)										
Ambient air temperature	+5 °C min. / 40 °C max.										
Substrate temperature	+5 °C min. / 40 °C max.										
Pot Life	~5 hours (25 °C)										
Waiting time to overcoating	Sikalastic®-152 BH must be properly hardened before over coating or contact with water. The following waiting times can be used as a guide: <table border="1"><thead><tr><th></th><th>+30°C</th></tr></thead><tbody><tr><td>Waiting time between coats</td><td>~6 - 12 hours</td></tr><tr><td>Lining with tiles</td><td>~6 - 12 hours</td></tr><tr><td>Temporary immersion for water-tightness testing</td><td>~2 days</td></tr><tr><td>Permanent immersion in water / fully cured</td><td>~7 days</td></tr></tbody></table> <p>Waiting times may vary depending on humidity of environment and substrate.</p>		+30°C	Waiting time between coats	~6 - 12 hours	Lining with tiles	~6 - 12 hours	Temporary immersion for water-tightness testing	~2 days	Permanent immersion in water / fully cured	~7 days
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## BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## IMPORTANT CONSIDERATIONS

- Avoid direct contact with chlorinated swimming pool water, it needs to be protected by suitable tiling.
- Sikalastic®-152 BH is not a vapour barrier, and may transmit vapour tensions to over-applied coatings.
- The hardening process is slower when there is a high environmental humidity level, e.g. in closed or inadequately ventilated rooms and basements. Controlled ventilation methods are recommended.
- Do not use the product in full sun exposure or in the presence of strong wind, or when it may rain.
- When over-coating with solvent paints always carry out preliminary trials to ensure the solvent does not affect the integrity of the waterproofing layer.
- Sikalastic®-152 BH is not suitable for vehicular traffic. Pedestrian trafficking is allowed, but only if protected by suitable tiling.

## ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

Substrates must be structurally sound, clean, dry and free of all contaminants such as dirt, oil, grease, cement laitance, coatings and other surface treatments etc.

Clean surfaces by blast cleaning, high-pressure water-jetting (400 bar), wire-brushing, grinding etc., in order to remove all previous coatings, any traces of grease, rust, release agents, cement laitance and any other material which could reduce adhesion. All dust deposits from this preparation must also be removed that is by vacuum.

Repair concrete substrates, if necessary, with an appropriate cementitious mortar from the SikaRep® or Sika MonoTop® range of repair materials. For applications in hot climates / environments and / or on absorbent substrates, thoroughly pre-dampen the sur-

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face immediately prior to the product application, but avoid any ponding / standing water on the surface, which must not be damp to touch and not with a dark-matt / wet surface appearance i.e. it must be saturated surface dry (SSD).

## MIXING

Sikalastic®-152 BH can be mixed with a low speed (~500 r.p.m.) electric drill mixer. Shake carefully Comp. A before using. Then pour ~½ Comp. A into a suitable mixing container and add Comp. B slowly while mixing.

When homogeneous, add the remaining amount of Comp. A, and mix thoroughly at least for 3 minutes, until the proper lump-free consistency is reached. Do not add any additional water or other ingredients; each packaging unit must be entirely mixed.

## APPLICATION

All connections between the substrate and pipe entries, plant and equipment, light switches etc., must be sealed and watertight. Joints in concrete, pipes, anywhere else in the structure must also be sealed and made watertight. Use coved details at the floor/wall junctions.

Apply Sikalastic®-152 BH by means of a trowel onto the substrate, exerting a good pressure.

Apply the first coat of Sikalastic®-152 BH using a notched (3 x 3 mm) trowel, with firm even pressure onto the substrate in order to achieve a regular, consistent thickness. As soon as the first layer has hardened, apply the second coat of Sikalastic®-152 BH by trowel, taking care to achieve a uniform and continuous layer, which totally covers the first one. In highly stressed areas a special alkali-resistant glass fibre fabric (eg. 150 - 160 g/m<sup>2</sup>) shall be placed into the first fresh mortar layer. It shall be well trimmed and fully embedded into the mortar avoiding the formation of voids in the coating.

Sikalastic®-152 BH cannot be smoothed using float or sponge trowel. It is possible to smooth the surface as soon as the curing of the product is complete by light abrasion techniques.

## CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened material can only be mechanically removed.

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local

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Product Data Sheet for exact product data and uses.

## 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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