

PRODUCT DATA SHEET

Sikalastic®-152 AE

FIBRE-REINFORCED CEMENTITIOUS MORTAR FOR FLEXIBLE WATERPROOFING AND CONCRETE PROTECTION



DESCRIPTION

Sikalastic®-152 AE 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

SUSTAINABILITY

Sikalastic®-152 AE is certified according "Low Emitting Materials as per Al Sa'fat - Dubai Green Building Evaluation System" by Dubai Central Laboratory (DCL) certificate No. CL17020432

APPROVALS / CERTIFICATES

Sikalastic®-152 AE follows the requirements of EN 14891 class CM.

PRODUCT INFORMATION

Composition	Cement modified with polymers, selected alkali-resistant aggregates, microsilica and fibres.				
Packaging	Ready batched 33 kg units: <table border="0" style="width: 100%;"> <tr> <td style="width: 60%;">Comp. A</td> <td style="text-align: right;">8 kg</td> </tr> <tr> <td>Comp. B</td> <td style="text-align: right;">25 kg</td> </tr> </table>	Comp. A	8 kg	Comp. B	25 kg
Comp. A	8 kg				
Comp. B	25 kg				
Appearance / Colour	Grey				
Shelf life	12 months from date of production				
Storage conditions	Store properly in the original packaging, in cool and dry conditions. Protect from water.				

Maximum Grain Size ~0.5 mm

TECHNICAL INFORMATION

Tensile Strength	~0.7 MPa (28 d / 24 °C)	(EN ISO 527)	
Elongation at Break	~43 % (28 d / 24 °C)	(EN ISO 527)	
Tensile Adhesion Strength	Value	Requirement	(EN 14891)
	Initial	~1.0 N/mm ²	≥ 0.5 N/mm ²
	After water contact	~0.7 N/mm ²	≥ 0.5 N/mm ²
	After heat ageing	~1.0 N/mm ²	≥ 0.5 N/mm ²
	Value	Requirement EN 1504-2	(EN 1542)
	~0.9 N/mm ²	≥ 0.8 N/mm ²	
Crack Bridging Ability	Class A4 (> 1.25 mm)	(EN 1062-7 Method A)	

SYSTEMS

System Structure For bonding tiles or equivalent materials directly on Sikalastic®-152 AE, use minimum a SikaCeram® C2 type according to EN 12004 or an adhesive compatible with Sikalastic®-152 AE. 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 ² /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 / Overcoating	Sikalastic®-152 AE must be properly hardened before over coating or contact with water. The following waiting times can be used as a guide:	
		+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
	Waiting times may vary depending on humidity of environment and substrate.	

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 ap-

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 surface 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 AE 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 AE by means of a trowel onto the substrate, exerting a good pressure.

Apply the first coat of Sikalastic®-152 AE 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 AE 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/m²) 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 AE 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.

IMPORTANT CONSIDERATIONS

- Avoid direct contact with chlorinated swimming pool water, it needs to be protected by suitable tiling.
- Sikalastic®-152 AE 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 AE is not suitable for vehicular traffic. Pedestrian trafficking is allowed, but only if protected by suitable tiling.

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.

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 Product Data Sheet for the exact product data and uses.

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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ISO 9001: Sika UAE LLC,
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ISO 14001: Sika UAE LLC,
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Sika Saudi Arabia Co. Ltd
OHSAS: Sika UAE LLC,
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All products are supplied
under a management
system certified to conform
to the requirements of the
quality, environmental and
occupational health &
safety standards ISO 9001,
ISO 14001 and OHSAS
18001.

Product Data Sheet
Sikalastic®-152 AE
October 2018, Version 02.01
020701010020000123

Sikalastic-152AE-en-AE-(10-2018)-2-1.pdf

