

# Sikalastic®-152

## Rapid curing cement mortar for flexible waterproofing and concrete protection

Construction

### Product Description

Sikalastic®-152 is a two component fibre-reinforced mortar, with very low elastic modulus, based on cement modified with special alkali-resistant polymers, containing fine particle size selected aggregates and adequate additives for waterproofing and protection of concrete subgrades subject to flexural strain. Sikalastic®-152 is particularly advisable for application in humid environments or low temperature conditions.

### Uses

- Concrete surface protection, in accordance with the following EN 1504-9 Principles: 1: protection against ingress (coating); 2: moisture control (coating); 8: increase of resistivity (coating)
- Waterproofing and protection of hydraulic structures such as: basins, tanks, swimming pools, concrete piping, bridges and canals
- 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
- Waterproofing of terraces and balconies with concrete or old tiles subgrades
- Waterproofing of weather exposed surfaces
- Protective, flexible, anti-carbonation coating of concrete surfaces also damaged from plastic and hydraulic shrinkage

### Characteristics / Advantages

- Flexible waterproofing and concrete protection with one product
- Reliable application also in very humid environment
- Applicable also on lightly humid subgrades
- Quick hardening (also at low temperature)
- Non sagging: easy application also on vertical walls
- Crack bridging properties
- Excellent adhesion onto almost all subgrades, such as for instance concrete, cement mortars, stone, ceramics, bricks and wood
- High resistance against de-icing salts and carbon dioxide

### Tests

#### Approvals / Standards

Sikalastic®-152 meets the requirements for the performance characteristics of EN 1504-2.



## Product Data

<b>Appearance/Colour</b>	grey
<b>Packaging</b>	Ready batched 26.4 kg units: Comp. A (liquid): 6.4 kg Comp. B (powder): 20 kg
<b>Storage</b>	
<b>Storage Conditions / Shelf-Life</b>	12 months from the date of production, if stored properly in undamaged original sealed packaging, in dry and cool conditions.

## Technical Data

<b>Chemical Base</b>	Cement modified with polymers, selected aggregates, microsilica and fibres.
<b>Density</b>	~ 1.8 kg/l
<b>Grading</b>	D <sub>max</sub> : 0.5 mm

## Mechanical / Physical Properties

**Requirements** Requirements as per EN 1504-2

	Test Method	Result	Requirement
CO <sub>2</sub> permeability	EN 1062-6	S <sub>D</sub> = 50	S <sub>D</sub> ≥ 50 m
Water vapour Permeability	EN ISO 7783	S <sub>D</sub> = 50 (class I)	Class I SD<5m (permeable) Class II 5m<SD<50m Class III SD>50m (not permeable)
Capillary absorption and liquid-water permeability	EN 1062-3	0.010 kg m <sup>-2</sup> h <sup>0.5</sup>	w < 0.1 kg.m <sup>-2</sup> .h <sup>0.5</sup>
Freeze-thaw cycling (de-icing salt immersion)	EN 13687-1	0.81 N/mm <sup>2</sup>	≥ 0.8 N/mm <sup>2</sup>
Bond strength	EN 1542	0.83 N/mm <sup>2</sup>	≥ 0.8 N/mm <sup>2</sup>
Crack bridging	EN 1062-7	> 0.100 mm	Class A1 (+23°C)
Dangerous substances (Chromium VI)	EN 196-10	< 0.0002%	< 0.0002%
Reaction to fire	EN 13501-1	A2	Euro class

## System Informations

### Application Details

<b>Consumption / Dosage</b>	As a guide, 1.8 kg/m <sup>2</sup> /mm.
<b>Substrate Quality</b>	The substrate must be structurally sound and free from dust, dirt, loose material, surface contamination as oil or grease, cement laitance.

<b>Substrate Preparation</b>	<p>The substrate should be prepared by suitable mechanical preparation techniques, such as high water pressure or grit blasting, water jetting to remove all previous coatings, wire-brushing, sanding on ceramic tiles. Non-impact/vibrating cleaning methods are preferred.</p> <p>Damaged, delaminated or weak concrete must be repaired using SikaTop® or Sika MonoTop® mortars.</p> <p>For a correct waterproofing in swimming pools, basins, tanks, sub-basement rooms, is useful to realize corner fillets between floor and wall using SikaTop® or Sika MonoTop® mortars. Interruptions in concrete casting, pipes, lights and installations must be sealed with suitable means.</p> <p>Subgrade must be left naturally dry or humid, as it is. Do not dampen before application. Avoid stagnant water or condensate before application.</p>
<b>Application Conditions / Limitations</b>	
<b>Substrate Temperature</b>	+5°C min. / +35°C max.
<b>Ambient Temperature</b>	+5°C min. / +35°C max.
<b>Application Instructions</b>	
<b>Mixing Ratio</b>	Comp. A : Comp. B = 6.4 : 20
<b>Mixing</b>	<p>Sikalastic®-152 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 3-4 minutes, until the proper lump-free consistency is reached.</p> <p>Do not add any additional water or other ingredients; each packaging unit must be entirely mixed, to avoid faulty particle size distribution of aggregates contained in the powder component.</p>
<b>Application Method / Tools</b>	<p>Apply Sikalastic®-152 by means of a trowel onto the substrate, exerting a good pressure.</p> <p>Apply the first coat of Sikalastic®-152 using a notched (3x3 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 by trowel, taking care to achieve a uniform and continuous layer, which totally covers the first one.</p> <p>Maximum recommended thickness for each coat is 2 mm. For waterproofing and concrete protection, the proper application thickness is at least 4 mm, applied in 2 layers.</p> <p>In highly stressed areas a special alkali-resistant glass fibre fabric (150 - 160 g/m<sup>2</sup> and 0.47 mm thick) 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.</p> <p>Sikalastic-152® 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</p> <p><i>Application of ceramic tiles on Sikalastic®-152:</i></p> <p>Ceramic tiles and vitreous tile mosaics can be applied over Sikalastic®-152 using a suitable cement tile adhesive (e.g. cement based tile adhesive complying with C2 class as per EN 12004 - cement medium-elasticity adhesive). Tile joint shall be filled with the relevant SikaCeram® tile grout.</p>
<b>Pot life</b>	~ 1 hour @ +20°C
<b>Cleaning of Tools</b>	Clean all tools and application equipment with water immediately after use. Hardened material can only be mechanically removed.

## Waiting time / Over-Coating

Immersion:

Sikalastic®-152 must be properly hardened before over coating or contact with water. The following waiting times can be used as a guide:

	+20°C	+10°C
Horizontal lining with tiles	~ 2 days	~ 7 days
Vertical lining with tiles	~ 2 days	~ 3 days
Coating by emulsion coat	~ 2 days	~ 3 days
Immersion in water	~ 2 days	~ 7 days

Waiting times may vary depending on humidity of environment and subgrade.

## Notes on Application/ Limitations

Sikalastic® cannot be smoothen using a float or sponge trowel

Protect from rain until at least 24 - 48 hours after application.

Avoid direct contact with chlorinated swimming pool water

Sikalastic®-152 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. 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

## 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.

## 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.

## 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 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.



Sika South Africa (Pty) Ltd  
9 Hocking Place,  
Westmead, 3608  
South Africa

E-mail: [headoffice@za.sika.com](mailto:headoffice@za.sika.com)  
Phone +27 31 792 6500  
Telefax +27 31 700 1760  
[www.sika.co.za](http://www.sika.co.za)

