

PRODUCT DATA SHEET

Sikalastic®-152

Cementitious flexible fibre-reinforced mortar for waterproofing and concrete protection



DESCRIPTION

Sikalastic®-152 is a 2-part, cementitious, polymer modified, flexible, crack-bridging, fibre-reinforced mortar for waterproofing and concrete protection. It can be applied onto many types of construction substrates.

USES

- Flexible waterproofing and protection of structures retaining or exposed to water such as tanks, concrete pipes, bridges etc.
- Protective, anti-carbonation coating for concrete surfaces
- Waterproofing of bathrooms, showers, wet rooms, terraces, balconies and swimming pools before the application of ceramic tiles bonded with cementitious adhesives
- Waterproofing and protection of concrete structures
- Internal waterproofing of basement walls and floors exposed to low water pressure
- Protection of concrete structures against the effects of de-icing salts and freeze-thaw

CHARACTERISTICS / ADVANTAGES

- Flexible waterproofing and concrete protection in one product
- Good crack-bridging abilities at low temperatures
- Resistant against de-icing salts and carbon dioxide
- 2-part, including liquid polymer, no additional mixing water required
- Can be applied onto slightly humid substrates
- Non sagging: Easy application also on vertical walls
- Good adhesion onto various substrates such as concrete, cementitious renders, stone, masonry

APPROVALS / STANDARDS

- CE Marking and Declaration of Performance to EN 14891 – Liquid applied water impermeable products for use beneath ceramic tiling bonded with adhesives
- CE Marking and Declaration of Performance to EN 1504-2 - Surface protection systems for concrete - Coating

PRODUCT INFORMATION

Chemical Base	Cement modified with polymers, selected alkali-resistant aggregates, microsilica and fibres.				
Packaging	Ready batched 33 kg units: <table border="1"> <tr> <td>Part A (Liquid)</td> <td>8 kg</td> </tr> <tr> <td>Part B (Powder)</td> <td>25 kg</td> </tr> </table>	Part A (Liquid)	8 kg	Part B (Powder)	25 kg
Part A (Liquid)	8 kg				
Part B (Powder)	25 kg				
Appearance / Colour	Grey				
Shelf Life	12 months from date of production				
Storage Conditions	Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +35 °C. Always refer to packaging.				

Maximum Grain Size	D_{max} : ~0,5 mm
Product Declaration	EN 14891: Liquid applied water impermeable products for use beneath ceramic tiling bonded with adhesives EN 1504-2: Surface protection systems for concrete - Coating

TECHNICAL INFORMATION

Tensile Adhesion Strength	~1,5 MPa	(EN 1542)																					
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	Classification ~1,2 mm (+23 °C) Class A3 ~0,90 mm (-10 °C) Class A3 Note: All values out reinforcement mesh	(EN 1062-7)																					
Crack Bridging Ability	~1,25 mm (+23 °C) Class A4 ~0,90 mm (-10 °C) Class A3 (Values without reinforcement mesh)	(EN 1062-7)																					
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	⁽¹⁾ Embedded with glass fibre fabric mesh (150–160 g/m ² and 0,47 mm thickness).																						
Reaction to Fire	Euroclass A2	(EN 13501-1)																					
Freeze Thaw De-icing Salt Resistance	≥ 0,8 N/mm ²	(EN 13687-1)																					
Behaviour after Artificial Weathering	After 2000 hrs, no blistering, cracking or flaking. Slight color change.	(EN 1062-11)																					
Permeability to Water Vapour	Class I (permeable) $S_D < 5$ m	(EN ISO 7783-1)																					
Capillary Absorption	~0,005 kg/m ² ·h ^{0,5}	(EN 1062-3)																					
Water Penetration under Pressure	No penetration after 7 days at 1,5 bar	(EN 14891 A.7)																					
Water Penetration under Negative Pressure	No penetration after 72hours at 2,5 bar	(UNI 8298/8)																					
Permeability to Carbon Dioxide	$S_D \geq 50$ m	(EN 1062-6)																					

APPLICATION INFORMATION

Mixing Ratio	Part A : Part B = 8 : 25 (by weight)															
Fresh mortar density	~1,8 kg/l															
Consumption	~1,8 kg/m ² /mm This figure is theoretical and does not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.															
Layer Thickness	~3 mm applied in a minimum of 2 layers (maximum recommended layer thickness is 2 mm)															
Ambient Air Temperature	+ 5 °C min. / + 35 °C max.															
Substrate Temperature	+ 5 °C min. / + 35 °C max.															
Pot Life	~1 hour at +20 °C															
Waiting Time / Overcoating	Sikalastic®-152 must be fully hardened before overcoating or in contact with water. <table border="1"><thead><tr><th></th><th>+20 °C</th><th>+10 °C</th></tr></thead><tbody><tr><td>Horizontal covering by tiles</td><td>~2 days</td><td>~7 days</td></tr><tr><td>Vertical covering by tiles</td><td>~2 days</td><td>~3 days</td></tr><tr><td>Protective coating</td><td>~2 days</td><td>~3 days</td></tr><tr><td>Water Immersion</td><td>~2 days</td><td>~7 days</td></tr></tbody></table> <p>Times are approximate and will be affected by changing ambient conditions particularly temperature, relative humidity and ventilation.</p>		+20 °C	+10 °C	Horizontal covering by tiles	~2 days	~7 days	Vertical covering by tiles	~2 days	~3 days	Protective coating	~2 days	~3 days	Water Immersion	~2 days	~7 days
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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.

LIMITATIONS

- Protect freshly applied material from rain until at least 24–48 hours after application.
- Avoid direct contact with chlorinated swimming pool water.
- The product is not a vapour barrier and may transmit vapour to applied coatings and cause blistering.
- 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.
- Avoid application during direct sun and/or strong wind exposure.
- When over-coating with solvent paints always carry out preliminary trials to ensure the solvent does not affect the integrity of the waterproofing layer.
- The product is not suitable for vehicular traffic. Pedestrian traffic is allowed, but only if protected by suitable tiling.
- Reinforcement mesh improves crack bridging ability at low temperatures.
- The surface of the product 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.

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

SUBSTRATE QUALITY / PRE-TREATMENT

- All connections between the substrate and pipe entries, plant and equipment, light switches etc. must be sealed and made watertight before applying Sikalastic®-152.
- Any joints which are present in the structure must also be sealed and made watertight. Use coving details at the floor/wall junctions.
- Repair concrete substrates if necessary, with an appropriate cementitious mortar from the SikaTop® or Sika MonoTop® range of repair materials.
- The concrete substrate must be thoroughly clean, loose material, surface contamination, cement laitance, coatings and material which can reduce adhesion or prevent suction or wetting by the mortar.
- Surfaces should be prepared by acceptable prepara-

tion equipment such as blast cleaning, high-pressure water-jetting (400 bar), wire-brushing, grinding etc. to an open texture to achieve the required adhesion value for the waterproofing or protection system.

- All dust, loose and friable material must be completely removed from all surfaces before application, preferably by industrial vacuuming equipment.
- Do not dampen substrate before application.

MIXING

Important: Do not add any additional water or other constituents.

1. Shake carefully Part. A before mixing.
2. Pour ~½ of Part. A into a suitable mixing container.
3. Add Part. B slowly while mixing with a low speed (~ 500 rpm) electric single paddle mixer or other suitable equipment until a consistent mix has been achieved.
4. Add the remaining amount of Part. A.
5. Mix thoroughly for at least 3 minutes to achieve a smooth consistent mix.

APPLICATION

Strictly follow installation procedures as defined in method statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

Important: Before application remove excess water, e.g. with a clean sponge.

Important: In natural damp environments, it is not necessary to dampen the substrate before application.

Important: Avoid standing water or condensation during application.

General

Sikalastic®-152 must be applied to the full surface area at the required layer thickness.

Hand Application

Apply mixed material with firm even pressure onto the prepared substrate using a notched (3 x 3 mm) trowel. As soon as the first layer has hardened, apply the second coat by flat edged trowel.

Sprayed Application - Wet Spray

The wet mixed Sikalastic®-152 must be placed into the spraying equipment and applied onto the prepared substrate. As soon as the first layer has hardened, spray apply the second coat.

Glass fibre fabric embedment

In highly stressed areas a special alkali-resistant glass fibre fabric (150–160 g/m²) must be placed into the first fresh mortar layer. Trim the fabric and fully embed into the mortar layer avoiding the formation of voids.

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CLEANING OF TOOLS

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

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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