BUILDING TRUST

PRODUCT DATA SHEET

Sikalastic®-152 HP

Two-component, cementitious, fibre-reinforced mortar for highly flexible waterproofing and concrete protection

CE

DESCRIPTION

Sikalastic®-152 HP is a two-component, highly flexible, crack-bridging, fibre-reinforced mortar, based on cement modified with special alkali-resistant polymers for waterproofing and concrete protection. Sikalastic®-152 HP is suitable for application by brush or trowel.

USES

- Highly flexible waterproofing and protection of concrete structures including tanks, basins, pipes etc.
- Waterproofing of bathrooms, showers, terraces, balconies, swimming pools before the application of all-size ceramic tiles bonded with adhesives
- Waterproofing of external wall surfaces to be backfilled in ground
- Internal waterproofing of walls and floors exposed in basements against negative low water pressure
- Flexible protective coating for reinforced concrete structures against freeze-thaw and permeability of carbon dioxide, leading to improves durability

FEATURES

- 2-Component product, including liquid polymer, no additional mixing water is required
- Good sag resistance and easy to apply, even on vertical surfaces
- Very good crack-bridging ability even at low temperatures
- Very good adhesion on many substrates including concrete, cement mortars, stone, masonry
- Can be applied on damp substrates

SUSTAINABILITY

- Contributes towards satisfying Indoor Environmental Quality (EQ) Credit: Low-Emitting Materials under LEED® v4.1
- VOC emission classification GEV-Emicode EC 1PLUS
- VOC content: Meets the requirements of SCAQMD Rule 1113
- Environmental Product Declaration (EPD) in accordance with EN 15804. EPD independently verified by Eurocert S.A.

CERTIFICATES AND TEST REPORTS

- CE-marking and Declaration of Performance as liquid-applied water impermeable product, based on polymer modified cementitious mortars for all external installations and swimming pools beneath ceramic tiling, class CMO2P according to EN 14891:2017, based on assessment by notified laboratory and factory production control.
- CE-marking and Declaration of Performance as surface protection product – Coating, Principle 1 (Protection against ingress) - Method 1.3, Principle 2 (Moisture control) - Method 2.3 and Principle 8 (Increasing resistivity) - Method 8.3 according to EN 1504-9:2008, based on certificate of factory production control issued by notified factory production control certification body and type testing.
- Certificate of Compliance for contact with potable water (conforms with positive list results, CARSO-Department of Health and Environmental Hygiene of Lyon), dated 17/04/2024, version number 24 CLP LY 021 (grey).

PRODUCT INFORMATION

Composition	Cement modified with alkali resistant polymers, selected aggregates, microsilica and fibres.
Packaging	Comp.A (liquid) 8.0 kg Comp.B (powder) 25.0 kg
Appearance and colour	Grey
Shelf life	12 months from date of production
Storage conditions	The Product must be stored in original, unopened, sealed and undamaged sealed packaging in dry conditions, at temperatures between +5 °C and +35 °C. Protect the Product from direct sunlight. Always refer to packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.
Maximum grain size	D_{max}: ~0,5 mm

TECHNICAL INFORMATION

Tensile adhesion strength

≥ 0.8 N/mm² (EN 1542)

	Test Method	Requirement
Initial tensile adhesion strength	A.6.2	≥0.5 N/mm²
Tensile adhesion strength after water contact	A.6.4	≥0.5 N/mm²
Tensile adhesion strength after heat ageing	A.6.5	≥0.5 N/mm²
Tensile adhesion strength after freeze-thaw cycles	A.6.6	≥0.5 N/mm²
Tensile adhesion strength after contact with chlorinated water	A.6.8	≥0.5 N/mm²
Tensile adhesion strength after contact with lime water	A.6.9	≥0.5 N/mm²

(EN 14891)

Crack bridging ability

Static crack bridging ability:

Class	Conditions
A4 (>1.25 mm)	at +23 °C, without mesh
A5 (>2.5 mm)	at +23 °C, with mesh
A3 (>0.5 mm)	at -10 °C, without mesh
A4 (>1.25 mm)	at -10 °C, with mesh

(EN 1062-7, Method A - C.2)

Crack width	Temperature
≥ 0.75 mm	+23 °C, with mesh
≥ 0.75 mm	-20 °C, with mesh

(EN 14891, A.8.2 & A.8.3)

Dynamic crack bridging ability:

Class	Conditions
No crack	+23 °C, with mesh

(EN 1062-7, Method B - B.4.2)

Reaction to fire	B-s1,d0	
Freeze thaw de-icing salt resistance	≥ 0.8 N/mm² *	(EN 13687-1 & -2)
	* Requirement for flexible systems of freeze salt cycling with de-icing salt immersion & thunder shower cycling	
Permeability to water vapour	Class I (permeable) S_D <5 m	(EN ISO 7783)
Capillary absorption	w < 0.1 kg/m² × $h^{0.5}$	(EN 1062-3)
Watertightness	No penetration after 72 h at 5.0 bar No penetration after 7 days at 1.5 bar	(EN 12390-8) (EN 14891)
Water penetration under negative pressure	No penetration after 72 h at 2.5 bar	(EN 12390-8)
Permeability to carbon dioxide	S_D > 50m	(EN 1062-6)

APPLICATION INFORMATION

Mixing ratio	Comp. A : Comp. B = 8 : 25	
Consumption	~1.8 kg/m² per mm of thickness depending on the substrate's roughness and final thickness of layer applied	
Layer thickness	3.0 mm at uniform thickness, applied in minimum 2 layers. Max. recommended thickness per layer is 2.0 mm when applied by trowel and 1.0 mm when applied by brush.	
Ambient air temperature	Minimum	+5 °C
	Maximum	+35 °C
Substrate temperature	Minimum	+5 °C
	Maximum	+35 °C
Pot Life	~60 min at +20 °C	
Waiting time to overcoating	Sikalastic®-152 HP 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**
Covering with tiles (horizontally)	~ 2 days	~ 7 days
Covering with tiles (vertically)	~ 2 days	~ 3 days
Water emulsion coating	~ 2 days	~ 3 days
Immersion in water	~ 2 days	~ 7 days
Contact with drinking water	~ 15 days	~ 15 days

Waiting times may vary due to environment and substrate humidity.

Fresh mortar density	~1.8 kg/lt

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.

IMPORTANT CONSIDERATIONS

- Sikalastic®-152 HP shall not be smoothened using float or sponge trowel. It is possible to smooth the surface as soon as the curing of the product is completed by light abrasion techniques
- Protect from rain until at least 24 – 48 hours after application
- Avoid direct contact with chlorinated water i.e., in swimming pool by using suitable protection
- Avoid application in, and protect freshly applied material from direct sunlight and/or strong winds
- Setting time can be influenced by high relative humidity, particularly in confined spaces or basements. The use of adequate ventilation is recommended

- Sikalastic®-152 HP is permeable to water vapour and does not form a vapour barrier for resin-based systems, impermeable to vapour, causing blistering
- If a solvent-based coating/ paint is to be applied on Sikalastic®-152 HP, carry out preliminary testing in order to ensure the solvents do not attack and damage the waterproofing layer
- Reinforcing mesh Sika® Fibernet, white improves crack-bridging ability

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

Substrates must be structurally sound, thoroughly clean and free from all contaminants such as dirt, oil, grease, cement laitance, existing 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 existing coatings, any traces of grease, rust, release agents, cement laitance and any other material which could reduce adhesion. All dust deposits from substrate's preparation must also be removed, i.e. by vacuum.
Repair concrete substrates, if necessary, with an appropriate cementitious mortar from the SikaRep® or Sika MonoTop® range of repair mortars. Presaturate the substrate, keeping the surface wet while not allowing it to dry out. The surface shall have a dark, matt appearance without glistering or saturated surface dry (SSD) appearance and surface pores and pits shall not contain water.

MIXING

Important: Do not add any additional water or other constituents.
1. Shake Comp. A carefully before mixing
2. Pour ~½ of Comp. A into a suitable mixing container
3. Add Comp. B slowly while mixing with a low speed (~500 r.p.m.) hand drill mixer
4. Add the remaining amount of Comp. A.
5. Mix thoroughly for at least 3 min. to achieve a smooth, consistent mix

APPLICATION

Special Requirements:
All connections between the substrate and pipe penetrations, plant and equipment, light switches etc. as well as joints in concrete and/or between concrete and masonry or dry walls must be sealed and be watertight using suitable joint sealing solutions. In case of joint that are subject to high displacements, the use of Sikadur® Combiflex®-SG is mandatory. Especially for construction joints in wet rooms, balconies and pools, Sika® SealTape profiles must be installed using Sikalastic®-152 HP as adhesive on both sides of the joint. Use coved details at the floor/ wall junctions.
Apply Sikalastic®-152 HPP by:
- Spatula/ trowel: Applying adequately firm pressure onto the substrate, ensuring uniform thickness
- Brush: In 2 directions (diagonally opposite / crosswise)
- Mechanical spray: Refer to Sika Technical Service for details

The maximum recommended thickness in each layer shall be 2 mm.
The optimum waterproofing performance is obtained by applying Sikalastic®-152 HP by trowel in at least 2 layers, to a total thickness of at least 3 mm, reinforced in between with Sika® Fibernet mesh. Application by trowel in at least 2 layers, the first using a notched trowel (3 mm x 3 mm). As soon as the first layer has hardened, apply the second by flat edged trowel.
Application by brush must be undertaken with the maximum attention to cover the whole surface uniformly. The maximum recommended thickness for this method of application is 1 mm per layer. In such cases, the application of min. 2-3 layers are required (subsequent layers must be applied crosswise). The application shall cover the whole surface of the substrate in a uniform thickness.
Between subsequent layers, wait until the first layer has hardened before applying the next one, while ensuring no dampening of the first layer.
Sikalastic®-152 HP cannot be smoothed using float or sponge trowel. It is possible to smooth the surface as soon as the curing of the product is completed by light abrasion techniques.

CLEANING OF EQUIPMENT

Removal of fresh remnants from tools and application equipment can be carried out using water immediately after use. Hardened / cured 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.

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