

PRODUCT DATA SHEET

Sikalastic®-110

HIGH ELASTICITY, ONE PART POLYURETHANE BITUMINOUS WATERPROOFING COATING

DESCRIPTION

Sikalastic®-110 is a water based one part modified polyurethane/bituminous coating, formulated to form a highly elastic, seamless and crack bridging membrane.

USES

Due to its high elasticity, Sikalastic®-110 can be applied on different structures including those subject to thermal movement and vibration such as:

- Concealed RC flat roof
- External walls to be buried below ground
- Waterproofing coating under tiles areas like podium, bathrooms and balconies

CHARACTERISTICS / ADVANTAGES

- Easy application by roller, brush or sprayed, even onto vertical walls and ceiling
- High elasticity
- High crack bridging capability
- Optimum adhesion onto concrete
- Can be applied directly on damp surface
- Non-toxic
- Low VOC and Eco-friendly

ENVIRONMENTAL INFORMATION

Singapore Green Label: 032-118-1857 "Environmentally Preferred Coating"

PRODUCT INFORMATION

Chemical Base	Polyurethane bituminous hybrid
Packaging	20 kg pail
Colour	Black
Shelf Life	9 months from date of production
Storage Conditions	Store in undamaged original sealed containers, in dry conditions and protected from direct sunlight at temperatures between +5 °C and +30 °C
Density	1.08 kg/l

TECHNICAL INFORMATION

Tensile Strength	~1.5 N/mm ² (Without reinforcement)	(ASTM D412)
Elongation at Break	~1000 % (Without reinforcement)	(ASTM D412)

SYSTEM INFORMATION

System Structure

Standard Coating System

Primer	1 x dilute 1 part Sikalastic®-110 at 0.2kg/m ² with 1 part of clean water
Coating	Min. 2 x Sikalastic®-110 at ~0.65 kg/m ² /coat
Total Consumption	~1.5 kg/m ²

Reinforced Coating System

Primer	1 x dilute 1 part Sikalastic®-110 at 0.2kg/m ² with 1 part of clean water
Coating	1 x Sikalastic®-110 at 0.8kg/m ² + Sika Reemat Premium reinforcement + 2 x Sikalastic®-110 at 0.5kg/m ²
Total consumption	~2.0 kg/m ²

APPLICATION INFORMATION

Ambient Air Temperature	+5 °C min. / +40 °C max.
Relative Air Humidity	Max. 80 % r.h.
Substrate Temperature	+5 °C min. / +40 °C max.
Waiting Time / Overcoating	First coat can be applied immediately after the primer. Allow 60 minutes between the primer and the first coat for indoor or inadequately ventilated rooms/area. Allow 4 to 5 hours (at +25 °C) between the first coat and second coats.
Applied Product Ready for Use	Sikalastic®-110 should be allowed to cure for min. 48 hours prior to over-laying with screed. Full cure min. 48 hours (at +25 °C).

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

The concrete must be dry, structurally sound, laitance free, clean and free from dirt, oil, grease or other contaminants and loose or friable particles. The substrate must be sound and of sufficient strength. If in doubt, apply a test area first.

Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed. All dust, loose and friable material must be completely removed from all surface before application of the product, preferably by brush and/or vacuum. The substrate should be well dampened but free of surface water and leaks.

MIXING

Prior to application stir Sikalastic®-110 thoroughly in order to achieve a homogeneous mix

APPLICATION

Sikalastic®-110 is applied using brush, roller or by spray.

CLEANING OF TOOLS

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

LIMITATIONS

- Do not add extra water or other ingredients (except for priming layer, where only clean water is added)
- Sikalastic®-110 may cure slower when the relative humidity is high, i.e. in closed or inadequately ventilated rooms and basements
- Do not allow temporary ponding to remain between coats on any horizontal surfaces or until the final coating has totally cured. Brush or mop surface water away during this time
- Freshly applied Sikalastic®-110 should be protected from rain for at least 8 hours (at +25°C)
- Do not allow permanent exposed under UV
- Do not apply Sikalastic®-110 in water-retaining structures such as RC tanks, swimming pools, water features etc.

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.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

ECOLOGY

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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