BUILDING TRUST

PRODUCT DATA SHEET

SikaCoat®-555

Micro-fiber reinforced acrylic waterproofing coating

DESCRIPTION

SikaCoat®-555 is a water-based, one-component liquid waterproofing coating with self-priming and microfiber reinforcement. It creates a flexible, durable waterproof membrane suitable for various applications.

USES

Waterproofing applications:
- Flat and sloped exposed roofs
- New and refurbishment projects
- External walls
- Roofs with complex details (e.g., penetrations, drains, skylights)

Compatible Substrates:
- Concrete, mortar, and cement-based materials
- Metal surfaces (steel, zinc, aluminium)

CHARACTERISTICS / ADVANTAGES

- Microfiber reinforced acrylic for flexibility and durability.
- Resistant to micro cracks with excellent penetration.
- High UV resistance and solar reflectivity for energy efficiency.
- Eco-friendly, water-based, and non-toxic.
- Bridges cracks and bonds well to various substrates.
- Elastic waterproofing with superior coverage.
- Easy application by roller, brush, or spray.

CERTIFICATES AND TEST REPORTS

- Singapore Green Label: 032-118-4437 "Environmentally Preferred Paints & Surface Coatings"

PRODUCT INFORMATION

Composition	Water based emulsion with internal microfiber reinforcement	
Packaging	▪ 5 kg pail ▪ 20 kg pail	
Colour	▪ White ▪ Grey ▪ Also available in other colours upon request (subject to minimum order quantity)	
Shelf Life	12 months from date of production	
Storage Conditions	Store properly in original, unopened, undamaged sealed packaging in dry condition at temperature between +5 °C and +30 °C. Protect from direct sunlight.	
Density	~1.30 kg/l	(ASTM D1475)
Viscosity	~70,000 cps	(ASTM D2196-99)
Solid content by weight	~65 %	(ASTM D1644)

TECHNICAL INFORMATION

Tensile Strength	~2.5 N/mm²	(ASTM D412)
Solar Reflectance	~81.50 %	(ASTM E903-20)
Thermal Emittance	~0.92	(ASTM C1371-15)
Solar Reflectance Index	~102.3 at 6–10 m/s	(ASTM E1980-11)
Elongation at break	~200 %	(ASTM D412)

APPLICATION INFORMATION

Consumption

For wall

Primer	SikaCoat®-555 diluted with 15–20 % clean water	0.3 kg/m² (undiluted)
First coat	SikaCoat®-555	0.3 kg/m²
Second coat	SikaCoat®-555	0.3 kg/m²

For roof

Primer	SikaCoat®-555 diluted with 15–20 % clean water	0.3 kg/m² (undiluted)
First coat	SikaCoat®-555	0.65 kg/m²
Second coat	SikaCoat®-555	0.65 kg/m²

The consumption above are approximates and does not include wastages. For porous substrates, the consumption may be higher.

Ambient Air Temperature	+5 °C min. / +35 °C max.
Substrate Temperature	+5 °C min. / +35 °C max.
Substrate Moisture Content	≤ 4 % pbw Test method: Sika®-Tramex meter, CM-measurement or oven-dry-method. No rising moisture according to ASTM D4263 (Polyethylene-sheet)

Waiting Time / Overcoating

Minimum	1–2 hours at +25 °C
Maximum	~24 hours at +25 °C

Applied Product Ready for Use	~72 hours at 25 °C

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

- Protect the applied material from rain before the material fully cured.
- SikaCoat®-555 should not be used in places where it is in permanent contact with water (water tanks, pools, swimming pool, shower area, toilets, wet kitchens, etc.) or in areas where flooding or condensation may occur.
- SikaCoat®-555 is not recommended in areas with constant or very long contact with water (immersed in water for a very long period).
- A minimum of 2 coats (not inclusive of primer) must be applied as a waterproofing system.
- Do not over coat SikaCoat®-555 with tile, concrete or others. SikaCoat®-555 is an exposed system.
- Do not place sharp objects on floor treated with SikaCoat®-555.
- Do not add extra water or other ingredients (except for priming layer, where only clean water is added)
- Cementitious substrates shall be > 28 days old prior to application of SikaCoat®-555. The substrate moisture shall be ≤ 4 %, Sika®-Tramex Meter, CM-Measurement or oven dry method.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

MIXING

Mix SikaCoat®-555 manually or use a low speed mixer until it is completely homogeneous prior to application.

APPLICATION

Dilute SikaCoat®-555 with 15–20 % of clean water. Stir gently until the mix is homogenous and uniform colour is achieved. Using a short hair wool roller, brush or by airless spray, apply a layer of the diluted SikaCoat®-555 onto the substrate, observing that it penetrates well in all the cracks.
After the primer has dried (> 3 hours at +30 °C), apply successive layers of SikaCoat®-555 to the desired film thickness. Ensure the previous layer is completely dry before applying the next layer.

CLEANING OF TOOLS

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

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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