BUILDING TRUST

PRODUCT DATA SHEET

SikaCoat®-500 Super

Styrene-acrylic copolymer waterproof liquid membrane coating with internally reinforced micro-fibres

DESCRIPTION

SikaCoat®-500 Super is a one component, water-base, liquid elastic waterproofing coating, based on styrene-acrylic copolymers with integral micro-fibre reinforcement. SikaCoat®-500 Super coating system is formulated to provide enhanced tensile strength of the coating product and forms a flexible, tough and durable reinforced protective waterproofing membrane layer. It is suitable for use in hot and tropical climates.

USES

Waterproofing:
- Flat and sloping fully exposed roof structures
- New construction and refurbishment projects
- External walls
- Roofs with numerous details such as penetrations, drains, roof lights and complex geometry

SikaCoat®-500 Super can be used on the following substrates:
- Concrete
- Mortar
- Cementitious substrates
- Brick
- Roof tiles
- Steel, zinc, aluminium and metal

CHARACTERISTICS / ADVANTAGES

- Integral micro-fibre reinforcement able to absorb expansion and shrinkage movement without cracking
- Good penetration in cracks, and resistant to cracking
- High weather resistance and UV resistance
- Environmentally preferred coating: water based, non-toxic and eco-friendly
- Elastic waterproofing membrane
- Easy application by roller, brush or sprayed
- Good bonding to various substrates
- Excellent hiding power
- Crack bridging ability

APPROVALS / STANDARDS

Singapore Green Label 032-118-3902 "Environmentally Preferred Coating" in accordance to SEC Green Label Category 32: Paint and Surface Coatings.

PRODUCT INFORMATION

Composition	Watery emulsion using styrene-acrylic copolymers with internal mirco-fibre reinforcement
Packaging	▪ 5 kg pail ▪ 20 kg pail
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.

Colour	▪ White ▪ Grey ▪ Also available in other colours upon request (subject to minimum order quantity)
Density	(1.25 ± 0.03) kg/l
Solid content by volume	(52 ± 2) %
Viscosity	~130 KU
Volatile organic compound (VOC) content	< 50 g/l

TECHNICAL INFORMATION

Tensile Strength	~2.2 N/mm²	(ASTM D412)
Elongation at Break	~147 %	(ASTM D412)

SYSTEM INFORMATION

System Structure

For wall

Layer		Consumption
Primer	SikaCoat®-500 Super diluted with 15–20 % clean water	0.3 kg/m² (undiluted)
First coat	SikaCoat®-500 Super	0.3 kg/m²
Second coat	SikaCoat®-500 Super	0.3 kg/m²

For roof

Layer		Consumption
Primer	SikaCoat®-500 Super diluted with 15–20 % clean water	0.3 kg/m² (undiluted)
First coat	SikaCoat®-500 Super	0.65 kg/m²
Second coat	SikaCoat®-500 Super	0.65 kg/m²

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

APPLICATION INFORMATION

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	2–3 hours at +30 °C
	Maximum	~2 days at +30 °C
Applied Product Ready for Use	~72 hours at +30 °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®-500 Super 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®-500 Super 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®-500 Super with tile, concrete or others. SikaCoat®-500 Super is an exposed system.
- Do not place sharp objects on floor treated with SikaCoat®-500 Super.
- 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®-500 Super. 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

Substrates must be free of standing water (no puddles) clean and free of all contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.
All existing coating / membrane, dust, loose and friable material must be completely removed from all surfaces before application of SikaCoat®-500 Super, and associated system products, by industrial vacuuming equipment.
The substrate must be sound and of sufficient strength. Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed.
To confirm adequate surface preparation and product adhesion, carry out a trial before full application together with adhesion tests.

MIXING

Mix SikaCoat®-500 Super manually or use a low speed mixer until it is completely homogeneous prior to application.

APPLICATION

Dilute SikaCoat®-500 Super 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®-500 Super 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®-500 Super 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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