

PRODUCT DATA SHEET

SikaTop® Seal-107 Bianco

White cementitious concrete protection mortar

DESCRIPTION

SikaTop® Seal-107 Bianco is a two-component ready-mixed mortar with low modulus of elasticity, based on cement modified with special synthetic polymers and micro-silica, containing fine particle size selected aggregates and adequate admixtures, to be reinforced with alkali-resistant glass fibre net.

USES

- Waterproof coating
- Concrete surface protection, to improve the durability
- Waterproofing and protection of hydraulic structures such as tanks
- Flexible protective coating for reinforced concrete structures, against the effects of de-icing salts and freeze-thaw attack and carbon dioxide
- Suitable for walkable areas waterproofing

CHARACTERISTICS / ADVANTAGES

- Highly waterproofing
- Pleasant plaster effect finish
- Water vapour permeable
- Very good adhesion on many substrates, such as: concrete, mortars, stones, bricks, etc.

APPROVALS / CERTIFICATES

SikaTop® Seal-107 (white) fulfills the requirements of EN 1504-2:2004

- Suitable for protection against ingress (Principle 1, Method 1.3 of EN 1504-9:2008). It creates a carbon dioxide barrier coating;
- Suitable for moisture control (Principle 2, Method 2.3 of EN 1504-9:2008);
- Suitable for increasing resistivity (Principle 8, Method 8.3 of EN 1504-9:2008).

PRODUCT INFORMATION

Composition	Cement modified with polymers and selected aggregates.	
Packaging	31.25 kg units (6.25 kg pails of comp. A + 25 kg bags of comp. B)	
Appearance / Colour	Comp. A:	White liquid
	Comp. B:	White powder
	Comp. A + B:	White
Shelf life	12 months from the date of production	
Storage conditions	Store properly in undamaged original sealed packaging, in dry and cool conditions.	
Density	~ 2.0 kg/L	
Maximum grain size	Dmax: 0.5 mm	

TECHNICAL INFORMATION

Tensile adhesion strength	~ 1.4 MPa (B)	(EN 1542)
Reaction to fire	A2 Euroclass	(EN 13501-1)
Freeze thaw de-icing salt resistance	~ 1.7 MPa (B)	(EN 13687-1)
Permeability to water vapour	SD ~ 0.52 m (Class I)	(EN ISO 7783)
Water absorption	No penetration (1,5 bar for 7 days) A.7.	(EN 14891 A.7.)
Capillary absorption	~ 0.03 kg m ⁻² h ^{-0.5}	(EN 1062-3)
Permeability to carbon dioxide	SD ~ 55 m	(EN 1062-6)

APPLICATION INFORMATION

Mixing ratio	Comp. A : Comp. B = 1 : 4 in weight
Consumption	~ 2.0 kg/m ² /mm.
Ambient air temperature	+ 8°C min. / + 30°C max.
Substrate temperature	+ 8°C min. / + 30°C max.
Pot Life	~ 50 min. (20° 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 from rain until at least 6 hours from application;
- Avoid application and protect freshly applied material in case of: direct sunlight and/or strong wind, rain;
- Substrate must be statically sound and fitted with regular expansion joints to absorb all the expected structural displacements;
- Don't apply any mortar layers onto SikaTop® Seal-107 (white). If necessary, substrate has to be levelled and profiled before SikaTop® Seal-107 (white) application;
- SikaTop® Seal-107 is not certificated according to EN 14891 for use beneath ceramic tiling.
- In correspondence with all the joints, the coating must be reinforced with Sika®Bandella RL120 and possibly provide for visible sealing with suitable sealant, in the absence of which, in case of significant movements, the coating it may have surface cracks, which in any case do not compromise the water-proofing of the system.
- SikaTop® Seal-107 White, especially if pigmented, can have a slightly uneven and cloudy color finish, deriving from the float finishing operations.

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) con-

taining physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Substrate quality

The substrate must be structurally sound, dimensionally stable and free of all traces of contaminants, loose and friable particles, cement laitance, oils and grease etc. The concrete "pull off" (tensile adhesive) strength must be > 1.5 MPa.

Substrate preparation

The substrate should be prepared by suitable mechanical preparation techniques, such as high water pressure or grit blasting. Non impact/vibrating cleaning methods are preferred. Damaged, delaminated or weak concrete must be repaired using Sika MonoTop® or SikaRep® mortars. Pre-wet the surface up to saturation. The wetted surface should achieve a dark matt appearance: no liquid water must be present on the surface.

MIXING

SikaTop® Seal-107 (white) can be mixed with a low speed (~ 500 r.p.m.) electric drill mixer. Shake carefully Comp. A before using. Then pour ~ ½ Comp. A into a suitable mixing container and add Comp. B slowly while mixing. When homogeneous, add the remaining amount of Comp. A and mix thoroughly at least for 3-4 minutes, until the proper lump-free consistency is reached.

Do not add any additional water or other ingredients; each packaging unit must be entirely mixed, to avoid faulty particle size distribution of aggregates con-

tained in the powder component.

The product can be coloured with water-based acrylic paste pigments. To a better distribution in the mass, it is recommended to mix previously the paste with comp. A (liquid), shake the tank before mixing with the comp. B (powder).

Pigments stable to light, to water action and to oxidizing agents are recommended, otherwise discoloration or color change in the coating may happen.

APPLICATION

Apply the mortar onto a regular substrate: if necessary, repair damages, honeycombs, broken edges, form spacer holes etc. with Sika MonoTop® mortars or Sikadur®-31CF (refer to Technical Data Sheets).

Apply a first coat using a notched (5x5 mm) trowel, exerting good and even pressure onto the subgrade in order to achieve regular, consistent thickness. Place onto the first fresh mortar layer one suitable alkali-resistant glass fibre net (weight ~145 g/m², spacing about 5 mm), fully embedding it into the mortar using a flat trowel. As first layer is hardened, place second SikaTop® Seal-107 (white) coat by notched trowel, immediately smoothed with a flat trowel.

An excellent surface finish can be achieved with a small sponge-coated floater when mortar starts hardening up. Warning: do not wet the trowel with water, but only with SikaTop® Seal-107 Bianco. A perfectly smooth finish is instead achieved by flat smooth metal float.

In case of application onto rigid substrates, as a protective coating for reinforced concrete with no waterproofing purposes, SikaTop® Seal-107 (white) can be applied without the glass fibre net within the two layers.

In case of application in particularly hot climate we recommend carrying out the application protected from light direct sunlight, or preferably in the evening, to avoid premature evaporation of the water of the product.

In correspondence with the control joints of screeds (to be expected every 3x3 m as mandatory for EN11493 §7.11.1.2) and other critical areas (eg: cracks, angles between horizontal and vertical surfaces) the waterproofing layer must be reinforced with Sika® Bandella RL120 (laid by cement adhesive from the SikaCeram range®). In correspondence of structural joints (subject to elevated movements) it is essential to provide for the use the Sikadur Combiflex SG system.

Maximum recommended thickness for each coat is 2 mm. For waterproofing and concrete protection, the proper total application thickness is at least 4 mm. In order to increase abrasion resistance of the coating, apply on the last layer of SikaTop® Seal-107 White,

after curing, one layer of Sika® Silidur, water based ethyl silicate impregnation. It is strictly recommended to avoid any stagnation or leaking, consequently reducing consumption of the product. Any accumulations of unabsorbed Sika® Silidur originate unsightly whitish halos and stains, which will come anyway attenuated by subsequent filling with the water in the tank.

Hydraulic load: Approximately after 5 / 7 days after the application, to be carried out continuously and without interruption, in order to prevent strokes and the nuances the color during curing. Keep damp walls if the filling of the tank takes more than one day. Do not load the tank until the coating is completely hardened.

CURING TREATMENT

Until it is dry, SikaTop® Seal-107 White shall be protected against rain, frost, high temperatures, strong wind and contact with substances that can stain or attack the coating.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with clean water immediately after use.

Hardened / cured material can only be removed mechanically.

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.

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LEGAL NOTES

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