

Product Data Sheet
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SikaTop Armatec®-108 PC

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Anti-corrosive rebar coating

Product Description SikaTop Armatec®-108 PC is cement based, polymer modified 2-component coating for corrosion protection of steel and metal.

Uses SikaTop Armatec®-108 PC is used for:

- Protection of metal structure from corrosion.
- Repair of damage reinforced concrete with corroded reinforcing bars resulting from carbonation.
- Against the action of Calcium Chlorides and de-icing salts.
- Preventive protection of reinforcing bars in slim reinforced concrete sections and filigree constructions

Characteristics / Advantages

- Easy to use
- Excellent adhesion to steel
- Good bonding coat for subsequent cement and epoxy-based repair mortar
- Good barrier effect against water, chlorides and CO₂
- Contains corrosion inhibitors
- Non-inflammable

Product Data

Form

Appearance /Colours Part A : white liquid
Part B : cement grey powder
Part (A+B) : greyish green

Packaging Pre-dosed non-returnable packs (A+B) in units of 3 kg.
Part A:1.00 kg plastic container
Part B:2.00 kg bag

Storage

Storage Conditions/ Shelf-Life Protect Comp. (A) from frost and Comp. (B) from moisture. 6 months in original pack.

Technical Data

Density Part A :1.01 kg/l at 27 °C
Part B :1.02 kg/l(bulk density) at 27 °C
Part (A+B) = 1.80 -2.0 kg/l (Mixed) at 27 °C

Carbonation Resistance 2mm SikaTop Armatec®-108 PC = 20 mm of normal mortar

Bond Strength to Steel 1-2 N/mm² (According to ASTM C 882- 78)



Construction

Application Instructions

Mixing Ratio	Part A : Part B = 1:2 (by weight)
Substrate Preparation	Clean, free from grease and oil, loose concrete and rust particles <u>Preparation of reinforcing steel:</u> Optimal: sand blasting Minimum: through cleaning with steel brush
Mixing	Only mix as much material as can be safely applied with in the pot lifetime. Fill part A (liquid) into a suitable mixing container and add the corresponding quantity of part B (powder). Mix together thoroughly for 3 minutes, small amounts by hand and larger amounts using a low-speed electric mixer (max. 250 r.p.m.). Mix in as little air as possible. The mixed material should have a brushable, barely dripping consistency. If necessary the consistency can be adjusted by adding one of the components and mixing thoroughly.
Coverage	Average consumption of the mixed system is 0.8 kg./m ² for 2 coats on metal surface.
Application Method / Tools	Apply the first coat approx. 1mm thick layer onto the prepared reinforcing steel with a medium- stiff brush. It is unavoidable that SikaTop Armatec [®] -108 PC will also be applied onto the surrounding concrete. The second coat is applied in the same way after a waiting time of 2-3 hours (at +20°C). Subsequently cement based mortar repairs can be applied after the same waiting time. The waiting time is approx. 24 hours for synthetic-resin-based mortars. If repairs are to be delayed, the second layer of SikaTop Armatec [®] -108 PC to be broadcast with 0.4- 0.7mm quartz sand immediately after application and allowed to harden.
Cleaning of Tools	Clean all tools and application equipment with clean water immediately after use. Hardened / cured material can only be removed mechanically.
Pot life	~ 20 minutes at +30°C
Important Notes	<ul style="list-style-type: none"> ■ Minimum application temperature: +5°C. ■ Apply at least 2 coats of approx. 1mm thickness each.
Value Base	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.
Health and Safety Information	For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet 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.

