

PRODUCT DATA SHEET

SikaTop® Armatec®-108 Plus

Cementitious anti-corrosive rebar protective coating with corrosion inhibitor

DESCRIPTION

SikaTop® Armatec®-108 Plus is a two component, cement based, polymer modified, protective coating with corrosion inhibitor that prevents oxidation and corrosion of the reinforcing steel and metal.

USES

SikaTop® Armatec®-108 Plus is used for:

- Protection of metal structure from corrosion
- Repair of damaged reinforced concrete with corroded reinforcing bars resulting from carbonation
- Protection of reinforcement against the action of calcium chlorides and de-icing salts
- Preventive protection of reinforcing bars in slim reinforced concrete sections and filigree constructions
- Improving adhesion between reinforcing steel and mortar or concrete, either in construction or repair of a structure
- Particularly beneficial for protection of reinforcing steel in structures exposed to aggressive environments

CHARACTERISTICS / ADVANTAGES

- Ready to use, just mix the components
- Prevents corrosion of reinforcing steel
- 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-flammable
- Can be spray applied using suitable spray equipment

PRODUCT INFORMATION

Chemical base	Portland cement, polymers and corrosion inhibitors	
Packaging	Part A+B pre-batched	15 kg
	Part A	5 kg container
	Part B	10 kg bag
Shelf life	12 months from date of production	
Storage conditions	Store in a cool place, under the roof and in unopened original packing. Transport in closed vehicles, protected from humidity and rain. Protect Part A from frost and Part B from moisture.	
Appearance / Colour	Part A+B mixed	greyish green
	Part A	white liquid
	Part B	cement grey powder

Density 1.60–1.80 kg/L (Part A+B mixed, +27 °C)

TECHNICAL INFORMATION

Tensile adhesion strength	1–2 N/mm ²	(EN 1542)
Carbonation resistance	2 mm SikaTop® Armatec®-108 Plus = 25 mm of normal mortar	

APPLICATION INFORMATION

Mixing ratio	Part A : Part B = 1 : 2 (by weight)	
Consumption	Average minimum consumption of the mixed system is 0.8 kg/m ² for 2 coats on metal surface, use multiple coats for desired level of thickness and protection	
Layer thickness	~0.5 mm in 2 coats	
Ambient air temperature	+5 °C min. / +40 °C max.	
Substrate temperature	+5 °C min. / +40 °C max.	
Pot life	Workable time: ~30 to 70 minutes at +30 °C	
Waiting time / Overcoating	2–3 hours at +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

- Avoid application in direct sun and / or strong wind and / or rain.
- Do not add water.
- Once SikaTop® Armatec®-108 Plus is applied on reinforcing bars, protect from rain for at least 6 hours.
- Apply only to sound, prepared substrates.
- Mix the product periodically during application.
- After losing its workability, the product must be discarded.
- NOT recommended for use with fast setting concrete or mortar.
- In case of possible chemical attack to the reinforcement the use of SikaTop® Armatec®-110 EpoCem® is recommended.

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 QUALITY / PRE-TREATMENT

The steel must be clean, free of loose rust, grease or other foreign substances. Clean by mechanical means

to achieve minimum commercial grade either by sand blasting or thorough cleaning with steel brush.

Rust removers such as Sika® Rustoff-100 are also suitable for preparation of reinforcing steel.

MIXING

SikaTop® Armatec®-108 Plus can be mixed with a low speed (< 250 rpm) electric drill mixer. Only mix as much material as can be safely applied with in the pot life. Fill part A (liquid) into a suitable mixing container and add the corresponding quantity of part B (powder). Mix the two components together for a minimum 3 minutes, minimising addition of air. Leave to stand for 5–10 minutes until mixed coating material exhibits a brushable, weakly dripping consistency.

APPLICATION

Apply the first coat approx. 1 mm thick layer onto the prepared reinforcing steel with a medium stiff brush. It is unavoidable that SikaTop® Armatec®-108 Plus 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 Plus to be broadcast with 0.4–0.7 mm quartz sand immediately after application and allowed to harden. To achieve greater protection, a third layer can be applied when second has dried for 12 hours. Spray application is also possible with suitable sprayer machine.

CURING TREATMENT

The reinforcement once coated shall be kept for air curing for 3–4 hours before used.

CLEANING OF TOOLS

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

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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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Product Data Sheet

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