

S&P Tecnoprot-CEM

Rebar primer for corrosion protection



A Simpson Strong-Tie® Company

The information in this technical data sheet is valid for the S&P range of products, systems and solutions.
Please note that the information in your country may vary. Visit sp-reinforcement.eu to find your local branch.

DESCRIPTION

S&P Tecnoprot-CEM is a one component, polymer modified cementitious primer for protecting rebars against corrosion. It is specially formulated with sulphate resistant cement, synthetic resin, active pigments and migratory inhibitors. It can be brush or spray applied and only requires the addition of water prior to mixing.

WHERE TO USE

- Steel reinforcement bars
- Prior to application of S&P repair mortars
- Can be used on a wide variety of concrete structures

PERFORMANCE FEATURES

- Provides durable protection against corrosion of rebars
- Excellent workability
- Easy to mix – just add water
- User friendly application
- Can be brush or spray applied
- Perfect solution in combination with S&P concrete repair mortars
- Excellent compressive strength and adhesion properties

GENERAL FEATURES

PRODUCT DATA

Generic description

S&P Tecnoprot-CEM

Size

5 kg bucket

Storage

Store in a dry and cool place

Shelf life

12 months in original and unopened buckets



This product conforms to EN 1504-7 : 2006.

PREPARATION

Rebars

Mechanically abrade the rebars ensuring that all rust, contamination and loose parts have been removed. The structural integrity of the rebars must be checked and confirmed by an engineer. In some cases additional reinforcement must be installed prior to application.

Concrete

Ensure that all of the concrete surrounding the rebars has been removed via mechanical abrasion. It is vitally important that all of the rebars in the damaged area are visible so that the product can be applied onto the entire surface of the rebars. All loose parts, dust and contamination must be removed from the concrete prior to application.

APPLICATION

Mixing

Slowly add 5 kg of S&P Tecnoprot-CEM to 1.05-1.15 litres of clean water whilst continually mixing with a mechanical mixer. Continue to mix for 1-2 minutes until a homogenous, lump free and fluid mix is obtained. Prior to application allow the mix to stand for 5 minutes.

Application

Apply a 1 mm thick layer of S&P Tecnoprot-CEM to the pre-prepared rebars. The product may be applied with a brush or by spray application. Allow the first layer to dry (4-5 hours at 20°C) before applying a second 1 mm thick layer of S&P Tecnoprot-CEM.

MECHANICAL PROPERTIES

Property	Test method	Minimum requirement according to EN 1504-7:2006	Value
Mixed density	-	-	~1900 kg/m ³
Pot life	-	-	~75 minutes
Water dosage per 5 kg	-	-	~1.1 litres
Application thickness	-	-	Two Layers of 1 mm
Consumption	-	-	2.2 kg/m ² (2 x 1.1 kg/m ² per layer)
Adhesion	EN 1542	-	≥ 2.0 N/mm ²
Compressive strength	EN 12190	-	≥ 45.0 N/mm ²
Corrosion protection	EN 15183	After the cycles, the protected rods must be corrosion-free and the penetration of rust on each end of the steel rods with no protection must be < 1 mm	Pass
Shear adhesion of coated steel in concrete	EN 15184	Shear bond stress of the coated bar must be at least 80% of the reference bond stress (uncoated bar)	Pass

CLEANING

Tools cleaning

Mixture that has not yet hardened can be washed off with a cleaner. Mixture that has hardened can only be removed by mechanical means.

TESTING

All technical data stated in this product data sheet are based on laboratory tests. Circumstances beyond our control may lead to deviations of actual values.

HEALTH & SAFETY

Important safety instructions

For detailed safety information, we recommend that you see the current safety data sheet which is available on www.sp-reinforcement.eu or you can contact us on +41 41 825 00 70.

S&P's range of products are for industrial use. They must be installed by specialised personnel and competent professionals with adequate training. The installation instructions must be followed and can be found in S&P application manuals and several "Guideline" documents / existing technical notes.

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The information and data in this technical data sheet serve to ensure the normal intended use and normal application suitability; the information and data are based on our knowledge and experience. They do not absolve the user from their own responsibility to check the suitability and application method.

The rights to make changes to product specifications .

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