

## Product Information

# Protectosil® WS CIT 200

Surface applied corrosion protection product for steel reinforced concrete structures

## PRODUCT DESCRIPTION

Protectosil® WS CIT 200 is a waterborne emulsion which is based on a multifunctional silane system specially designed to protect embedded steel rebars against corrosion caused by chlorides.

### Typical Properties

Property	Unit	Value
Appearance		white liquid
Active Content	wt%	50
Density DIN 51757 (@20 °C)	g/cm <sup>3</sup>	1.0
pH Value (@20 °C)		9.5-11.5

The data represents typical values (no product specification)

## TYPICAL APPLICATIONS

Protectosil® WS CIT 200 is preferably designed for:

- steel reinforced concrete based on mixed design with high w/c ratios or air-entrainers
- building materials which are exposed to high chloride environments, such as sea water or de-icing salts (e.g. marine constructions, harbours, parking garages, tunnel or highways)

## BENEFITS & ADVANTAGES

Protectosil® WS CIT 200

- is water based
- chemically binds to concrete
- effectively protects embedded steel reinforcement against chloride induced corrosion
- significantly reduces water uptake
- is ready to use

## DOSAGE

The whole concrete surface including existing repairs should be treated with undiluted Protectosil® WS CIT 200. Several consecutive coats should be applied in order to achieve the required consumption rate of minimum 300 g/m<sup>2</sup>

## HANDLING & PROCESSING

Concrete surfaces have to be thoroughly cleaned and dried before treatment with Protectosil® WS CIT 200.

Protectosil® WS CIT 200 should be applied by wet-on-wet flow coating to the saturation point. The solution should be applied in 2 - 3 coats without drying periods between coats. On vertical surfaces the solution should form visible descending wet curtain. This is achieved by allowing the solution to flow against the surface of the building material without pressure. Most liquid delivery devices such as e.g. airless pumping equipment are suitable. The material should not be atomized or applied with a brush.

Since a water based emulsion is not capable of penetrating a previously hydrophobized surface, the application needs to be done in sections and continuously without overlaps. Otherwise remaining liquid might lead to the formation of white residues.

To determine whether previous or following treatments are compatible with Protectosil® WS CIT 200 it is recommended to do a small test patch first. The treatment of imperfections or previously hydrophobized surfaces can only be done with Protectosil® CIT.

During application outside and surface temperature should be between 5 °C and 40 °C. Protectosil® WS CIT 200 should not be applied during strong wind or rain and should be kept at temperatures >5 °C.

Non-absorbent substrates such as window frames, windowsills, plastic fittings, window glass, etc., should be covered before application. Surfaces which accidentally come into contact with Protectosil® WS CIT 200 can be cleaned with alcohol (spirit) or aqueous soap solution. Cleaning should be carried out as quickly as possible (within a few hours), otherwise formation of a silicone resin film can make cleaning more difficult. Silicone resin films are best removed using ethanol (or spirit). Plant life should be protected from overspray.

## SAFETY

Before considering the use of Protectosil® products please read its Safety Data Sheet (SDS) thoroughly for safety and toxicological data as well as for information on proper transportation, storage and use.

The Safety Data Sheet is available on our website <https://silanes.evonik.com/en> or upon request from your local representative, customer service or from Evonik Operations GmbH, Product Safety Department, E-MAIL [sds-hu@evonik.com](mailto:sds-hu@evonik.com).

## PACKAGING

Protectosil® WS CIT 200 is supplied in 25 l PE-canisters, 200 l steel drums with PE inliner and 920 l containers.

## STORAGE

The product should be stored at temperatures between 3 °C and 40 °C. Do not allow material to freeze.

## SHELF LIFE

Protectosil® WS CIT 200 has a shelf life of at least 12 months if stored in originally sealed containers.

## Registration Listings

Registry	Status
Australia (AICIS)	No
Canada (DSL)	Information upon request
China (IECSC)	Information upon request
EU (REACH)	Yes
Japan (ENCS)	Yes
South Korea (KECL)	No
Philippines (PICCS)	Yes
United States of America (TSCA)	Yes

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