Technical Datasheet

FERROSEAL-CSI

Corrosion-inhibiting impregnation

Description

FERROSEAL-CSI is an aqueous solution with high penetrating properties. It is a surface-applied corrosion inhibitor, designed for use as an impregnation of steel reinforced concrete. It has the ability to migrate through concrete and form a protective layer on the surface of the reinforcement steel.

- It extends the working life of the structure.
- It inhibits the start of corrosion in new structures.
- It reduces the corrosion rate on existing structures.
- It does not change the appearance of the concrete structure.
- It does not alter the water vapor diffusion properties of concrete.
- It is easy to apply.

Fields of application

FERROSEAL-CSI is used as a precautionary corrosion protection of steel reinforced concrete structures above and below ground. It is also ideal for repairs in reinforced concrete. Furthermore, it is suitable as an anticorrosive protection for structures of reinforced concrete that are exposed on aggressive environment such as bridges, aqueducts, etc.

Technical data

Form:	liquid
Color:	transparent
Density:	1.02 kg/l
pH:	11

Directions for use

1. Substrate
The substrate must be dry, sound and free of dust, grease, loose materials, efflorescence, paints, etc. If cleaning is required, it is recommended to be done by water blasting. The surface must be dry before the application of FERROSEAL-CSI.

2. Application
FERROSEAL-CSI is ready to use and should not be diluted with water. It is applied on the substrate by spraying, by brush or by roller, until the surface is fully saturated. Usually, 3 to 5 layers must be applied to achieve the minimum required consumption. Each layer is applied after the previous one has dried.
To increase the migration speed of FERROSEAL-CSI inside concrete, the surface can be sprayed with water 1-2 times after 2-3 days of the application. In case the treated surface with FERROSEAL-CSI will be later covered by paint or by a repairing mortar, this can be done if it has been previously water blasted (not earlier than 2 days after the application of FERROSEAL-CSI). Any traces of soluble salts that may form on the surface after the application of FERROSEAL-CSI must be removed prior to further treatment. Site trials are recommended to ensure proper adhesion.

Consumption

Approximately 0.5 kg/m^2.
To achieve adequate protection of the steel reinforcement, consumption should not be less than 0.3 kg/m^2.

Packaging

20 kg containers.

Shelf life – Storage

24 months from production date if stored in original, unopened packaging, in places protected from moisture and frost.

FERROSEAL-CSI

Remarks

- Temperature during the application should be at least +5°C.
- The following materials should be protected from contact with FERROSEAL-CSI: silicone sealants, PVC, epoxy and polyurethane layers, metal surfaces (aluminum, copper, galvanized steel), wood, marble and natural stones.
- Do not use it on surfaces saturated with water.
- Consult the safety instructions written on the packaging.

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