

# Protectosil®

## Corrosion Protection for Steel Reinforced Concrete



Protectosil® products protect steel reinforcements against chloride induced corrosion pitting in order to secure long service life and save maintenance efforts.

**Evonik Silanes – Performance beyond expectations**

Protectosil®

### Basic product recommendation

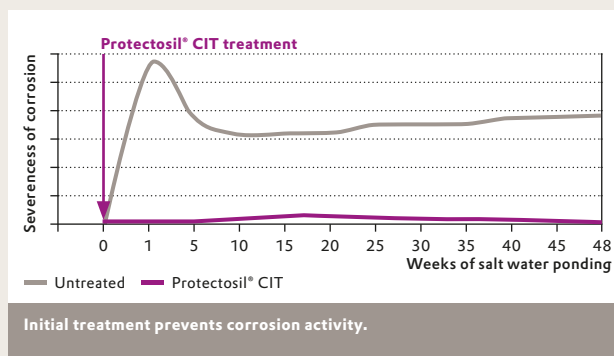
	Protectosil® grade	Application / usage		Concrete structure / building		Maintenance and repair			
		Surface applied	Part of mix design	Existing constructions	New constructions	Dense concrete	Porous concrete	Hydrophobic concrete	Mortar
Pure silane systems	CIT	✓		✓	✓	✓	✓	✓	
Powder form	DRY CIT		✓		✓				✓
Water based	WA CIT		✓		✓				✓
	WS CIT 200	✓		✓			✓		

## Key benefits

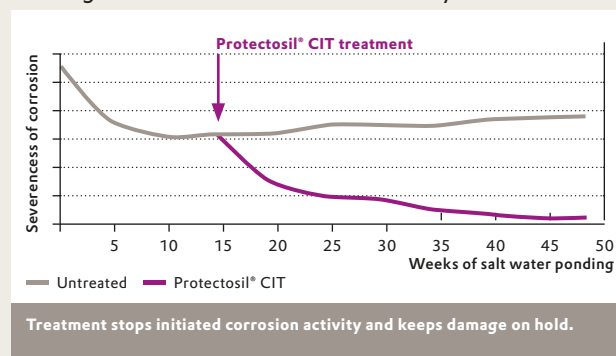
- Long-lasting corrosion protection to improve durability and prolong service life
- Significant savings of resources and maintenance costs
- Effectiveness confirmed through several independent external test institutions
- No change in the appearance of the substrate
- Preservation of water vapor permeability
- No impact on the adhesion of subsequent coatings

## Performance data

### New concrete structures

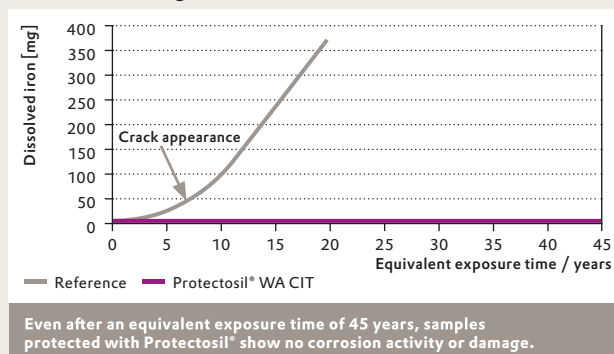


### Existing structures with corrosion activity



## Mass modification

### Part of mix design



### Advantages of Protectosil® compared to other corrosion protection systems

Corrosion protection systems	Easy handling	Long term effectiveness	Long term cost for application and maintenance*
Dense concrete	+	-	-
Stainless steel	+	+	-
Cathodic protection	-	+	-
Corrosion inhibitors (e.g. Ca-nitrites, amino ethanols, phosphates)	+	-	-
<b>Protectosil® DRY CIT or WA CIT</b>	+	+	+

\*Time frame of 30 years

Protectosil® products offer significant advantages compared to other corrosion protection systems.

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