

## PROTECT HCS (ST)

Item No 2520

**Stabiliser acc. to EN 934-2 for producing hydrophobic concrete**

### FIELDS OF APPLICATION

PROTECT HCS (ST) is a stabiliser with hydrophobic effects for mineral-based building materials.

PROTECT HCS (ST) generates a hydrophobic concrete structure during the production process. As a result the water penetration in hardened concrete is minimised. Thereby the occurrence of efflorescence is reduced and the frost resistance is significantly improved.

Consequently, PROTECT HCS (ST) makes a contribution to producing durable and sustainable concrete.

PROTECT HCS (ST) stabilises concrete's texture and prevents it from segregation and bleeding tendencies.

Additionally, PROTECT HCS (ST) improves concrete's workability and compaction and attains a homogenous structure.

### DOSAGE

Recommended dosage range 0.3 – 2.0 mass-% of the cement content;  
is equivalent to 3 – 20 ml per kg cement.

### WORKING PRINCIPLE

PROTECT HCS (ST) generates a hydrophobic capillary system and thereby reduces the water absorption abilities of concrete. Having this properties the occurrence of efflorescence and frost damages are significantly decreased.

### TECHNICAL DATA

Homogeneity	homogenous
Colour	white
State	liquid
Density	1.03 ± 0.02 g/cm <sup>3</sup>
pH-value	10.5 ± 1
Workability	from +1 °C
Shelf life	approx. 1 year from date of production if stored properly
Storage conditions	Store in unopened, original sealed packaging between +5 °C and +25 °C. Protect from frost and insolation.

## PROCESSING INDICATIONS

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Agitation or circulation is recommended before the product is firstly used and after an undisturbed period.

PROTECT HCS (ST) should be added either to the tempering water or to the ready-mixed concrete batch.

The mixing time should be 60 seconds at least.

In order to ensure compatibility with other admixtures, pre-tests should be performed.

**Note: Changes in cement sort, water/cement ratio etc. might lead to colour variations in concrete.**

This product is not classified as hazardous according to the CLP regulations. See safety data sheet for further information.

## PACKAGING

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- 30 l can
- 200 l barrel
- 1000 l container

## REMARKS

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This information describes the application- and processing possibilities of a product and its operation principles under regular conditions. Having no influence on the further application and processing, especially in conjunction with other construction materials, the given indication are neither a warranty in respect of the product's properties or its fitness for a particular purpose nor a full instruction of use. This information, any other recommendation or verbal advice are not binding and do not infer to any liability or legal demand.

Due to continuous further development, the most recent Technical Data Sheet is valid and will be supplied on request. All orders are accepted subject to our current general terms and conditions.

Edition: 03 March 2022

**SUITABILITY- AND PRE-TESTS ARE NECESSARY BEFORE APPLYING THE CONCRETE ADMIXTURE!**