

# ANTIPOR® HydroCem-60 (ST)

Item No. 2360

**Hydrophobing agent and processing aid for manufactured concrete products**

## FIELDS OF APPLICATION

ANTIPOR® HydroCem-60 (ST) is a specially developed product for semi-dry concrete. It combines the advantages of a PCE-based processing aid and hydrophobic admixture. ANTIPOR® HydroCem-60 (ST) allows the following benefits:

### > Unerringly increase of water content

Due to the special product formulation ANTIPOR® HydroCem-60 (ST) reduces the risks of high water absorption. The manufactured concrete products remain stable in shape and possible risks of deformations such as swelling are minimized.

### > Strength optimization

Due to the purposeful increase of the quantity of added water ANTIPOR® HydroCem-60 (ST) allows exploiting cement's full hydration potential which results in significantly improved high early strength as well as high final strength.

### > Decrease of efflorescence

The hydrophobic product formulation reduces the water absorption of concrete. Having this properties concrete is protected from efflorescence and frost damages.

Therefore ANTIPOR® HydroCem-60 (ST) increases the durability of manufactured concrete products and might be a contribution to sustainability.

### > Improved appearance

With the addition of ANTIPOR® HydroCem-60 (ST), the cement particles are almost completely dispersed and wetted in the fresh concrete. This product feature allows for improved compactability, which eventually leads to a denser and more homogeneous-looking concrete structure.

Porous areas can be minimized, the concrete's vertical sides are improved, and the edges of the concrete form appear sharper edged, so that the concrete product shows an improved appearance.

### > Processing aid

ANTIPOR® HydroCem-60 (ST) advances the tolerance to process-related variations in water content which secures a more homogenous and steadier

production process. Furthermore, it minimises sticking to the stamp.

These product properties may result in shorter cycle times, an improved productivity, and an economic optimization of concrete.

ANTIPOR® HydroCem-60 (ST) is suitable for core and monolayer designs as well as to produce semi-dry face concrete.

## DOSAGE

Recommended dosage range 0.6 – 1.2 mass-% of the cement content; is equivalent to 6 – 12 ml per kg cement.

## TECHNICAL DATA

Homogeneity	homogenous
Colour	white
State	liquid
Density	1.03 ± 0.02 g/cm³
pH-value	6.0 ± 1.0
Chloride content	< 0.10 mass-%
Alkali content (Na <sub>2</sub> O-equivalent)	< 4.0 mass-%
Workability	from +5 °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.

ANTIPOR® HydroCem-60 (ST) should be added to the ready mixed concrete batch.

The mixing time should be 60 seconds at least.

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 is 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.

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