

# ANTIPOR® HD155

**Plasticizer for resource-efficient and climate-friendly concretes in semi-dry consistency**

Item No 2382

## CHARACTERISTICS

ANTIPOR® HD155 is a highly effective, liquid, VOC- and silicone-free wetting and dispersing agent. The additive is highly compatible with various mineral binder systems and contributes to a CO<sub>2</sub>-efficient production of concrete products and structures.

ANTIPOR® HD155 is particularly suitable for the following applications:

- Resource-efficient concrete made using recycled aggregates
- Climate-friendly concrete made using cements with reduced clinker content
- Climate-friendly concrete made using alternative binders or supplementary cementitious materials (SCMs)

ANTIPOR® HD155 can provide the following benefits:

- Fast and even wetting of all components
- Accelerated and easier mixing
- Improved processing properties
- No impact on the setting process
- Optimized early and final strengths of resource-efficient, climate-friendly concrete
- Optimized and harmonized production processes in MCP plants
- Minimized reject rates in MCP production

## WORKING PRINCIPLE

The polymer structure of ANTIPO® HD155 enables a very rapid dispersion of the cement and the fine particles. By reducing the surface tension, a quick wetting of the entire concrete mix is achieved.

The shear-thinning rheological behaviour improves the processing properties. This increases the homogeneity and workability of the concrete mix, making it easier to process and resulting in higher strength. The concrete structure becomes denser, and the surface appears more closed.

## DOSAGE

Recommended dosage range 0.20 – 1.50 mass-% of the cement content; is equivalent to 2 – 15 ml per kg cement.

## TECHNICAL DATA

Homogeneity	homogenous
Colour	colourless to yellowish
State	liquid
Density	1.01 ± 0.02 g/cm <sup>3</sup>
pH-value	5.0 ± 1.0
Chloride content	< 0.10 mass-%
Alkali content (Na <sub>2</sub> O-equivalent)	< 8.5 mass-%
Workability	from +1 °C
Shelf life	approx. 24 months from date of production if stored properly
Storage conditions	stored in unopened, original sealed packaging between +5 °C and +25 °C. Protect from frost and insolation

## PROCESSING INDICATIONS

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Before use and after extended storage, the product should be homogenized.

ANTIPOR® HD155 is added to or after the mixing water.

The mixing time must comply with the requirements of EN 206-1.

Cloudiness during storage and transport at temperatures below 10°C may occur but does not affect the product's effectiveness.

If other admixtures are introduced into the concrete mix, we recommend compatibility tests before using ANTIPO® HD155.

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.