

# PANTARHOL® CS613 (VZ)

Item No 0416

**Retarder and stabiliser for cement/ bentonite suspensions**

## FIELDS OF APPLICATION

PANTARHOL® CS613 (VZ) is a retarding and stabilising agent especially designed for cement/bentonite suspensions.

The special product formulation supports the production of low-viscosity suspensions and is suitable for all applications where optimised pump ability and excellent processing characteristics are of crucial importance.

PANTARHOL® CS613 (VZ) is generally suitable for the following applications:

- Soil improvement
- Injections
- Cut-Off Wall 1-Phase Method

## DOSAGE

The general dosage range is 0.5 – 3.0 mass-% of the cement content.

Pre-tests to determine the consumption are required at any time. The dosage quantity has to be determined for each single application and can vary from the above given recommendation.

## WORKING PRINCIPLE

PANTARHOL® CS613 (VZ) is retarding the cement hydration and is extending the workability time of suspensions. The retarding effect is influenced by the dosage, but also by the type of cement and by temperature.

This provides several technical, economic and ecological advantages.

## TECHNICAL DATA

Homogeneity	homogenous
Colour	dark brown
State	liquid
Density	1.26 ± 0.03 g/cm <sup>3</sup>
pH-value	8.5 ± 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 +40 °C. Protect from frost and insolation.

## PROCESSING INDICATIONS

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PANTARHOL® CS613 (VZ) should be added to the mixer after the bentonite and before the cement.

Do not use PANTARHOL® CS613 (VZ) in conjunction with any other additive without consulting with the Technical Department of Ha-Be.

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
- Tanker

## 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.

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