

## Ha-Be Bentonite

Item No. 3306

**Natural sodium based bentonite for underground constructions**

### FIELDS OF APPLICATION

Ha-Be Bentonite is a high-quality natural sodium-based bentonite for all kinds of underground constructions. Due to its excellent supporting and rheological characteristics Ha-Be Bentonite is especially suitable for areas with challenging soils.

Besides the supporting aid Ha-Be Bentonite shows high lubricating properties, short swelling times and a good flow ability.

Ha-Be Bentonite is generally suitable for the following applications:

- TBM-tunneling
- Grouting stabilisation
- Diaphragm walls
- Bored piling foundations
- Pipe jacking
- Special civil engineering
- Shaft sinking

### DOSAGE

The necessary quantity might vary and needs to be determined in preliminary tests for each individual application.

### WORKING PRINCIPLE

After the dispersion in water Ha-Be Bentonite achieves a high-grade support fluid with excellent rheological characteristics.

The suspension prolongs the workability time and facilitates the pumpability.

### TECHNICAL DATA

Homogeneity	homogenous
Colour	brown
State	powder
Moister	max. 13%
Filter loss	max. 17 ml
pH-value	9.5 ± 1.0
Marsh viscosity	min. 42 sec. (5% bentonite)
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.



Ha-BeTunnel Team

## PROCESSING INDICATIONS

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Ha-Be Bentonite is to be added to the water.

## COMPATIBILITY

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Ha-Be Bentonite is suitable for designs containing OPC or SRC cement, micro-silica or silica fume, fly ash (PFA), ground granulated blast furnace slag (GGBS) and Bentonite.

When using other Ha-Be admixtures in the same concrete mixture, the products should be added separately and must not be blended prior to addition! Using more than one admixture requires suitability and preliminary tests in order to ensure the required combination of its effects is attained.

This product is not classified as hazardous according to the current regulations. Refer to the corresponding Material Safety Data Sheet for further advice.

## PACKAGING

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- 25 kg bags
- 1000 kg big bags
- loose by bulk supply

## 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 PRELIMINARY TESTS ARE NECESSARY BEFORE APPLYING THE PRODUCT!**