

PANTARHIT® CBS 820 (BV)

Item No 0903

Concrete admixture solution for controlling clay containing aggregates

FIELDS OF APPLICATION

PANTARHIT® CBS 820 (BV) is a special admixture solution designed for allowing the use of challenging aggregates e.g. clay containing sands in ready-mix and precast concrete applications.

The special product composition creates a blocking system which reduces clay's capacity to absorb concrete admixtures, making them ineffective. The blocking effect ensures enhancing the effectiveness and performance of superplasticizers or plasticizers and helps to control the concrete technological challenges when using clay containing aggregates.

Therefore, PANTARHIT® CBS 820 (BV) provides the following benefits to concrete:

- Controlled consistency retention
- Stable water demand
- Controlled workability
- Sufficient plasticizing effects
- Economical dosage level
- Allows formation of low-viscosity concrete
- Meeting the required w/c-values

PANTARHIT® CBS 820 (BV) gives concrete producers the opportunity to use difficult aggregates which were previously unsuitable for the concrete production.

This enables concrete manufacturers to realize considerable cost savings.

DOSAGE

Recommended dosage range 0.2 – 2.5 mass-% of the cement content;
is equivalent to 2 – 24 ml per kg cement.

WORKING PRINCIPLE

PANTARHIT® CBS 820 (BV) neutralises the strong water absorbing attributes of clay containing aggregates by saturating their surface.

Combining the special admixture with a PCE-based PANTARHIT® high performance superplasticizer or plasticizer provides an ideal control over concrete's workability and its consistency retention.

TECHNICAL DATA

Homogeneity	homogenous
Colour	amber
State	liquid
Density	1.04 ± 0.02 g/cm ³
pH-value	5 ± 1
Chloride content	< 0.10 mass.-%
Alkali content (Na ₂ O equivalent)	< 4.0 mass.-%
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

PANTARHIT® CBS 820 (BV) should be added to the ready-mixed concrete.

It can be used in combination with a PCE-based PANTARHIT® high performance superplasticizer or plasticizer.

The mixing time must comply with the regulations defined in EN 206-1.

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

PACKAGING

- 30 l can
- 200 l barrel
- 1000 l container
- loose by bulk supply

REMARKS

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!