

PANTARHIT® TB100 (FM)

Item No 0868

High performance superplasticizer for concrete acc. to EN 934-2

Also suitable as concrete plasticizer PANTARHIT® TB100 (BV)

FIELDS OF APPLICATION

PANTARHIT® TB100 (FM) is a high-performance superplasticizer especially designed for the production of ready-mix concrete with a long workability time in different consistency classes, combined with high early and final strengths and without delayed setting characteristics.

PANTARHIT® TB100 (FM) is applicable as a single admixture for many different types of applications such as the production of high quality and durable concrete even at low water cement ratios, the production of high-quality concrete with high water demanding base materials, the production of exposed concrete with high surface requirements and the production of self compacting concrete (SCC) even in the presence of a dense reinforcement structure.

PANTARHIT® TB100 (FM) may reduce the compaction energy applied to concrete. Concrete manufacturers, contractors and applicators may therefore achieve an economical and technical benefit.

DOSAGE

Recommended dosage range 0.2 – 2.2 mass-% of the cement content; is equivalent to 2 – 20 ml per kg cement.

For F5 concrete | a = 620 mm

Having an initial consistency at the end of F1: approx. 10 ml per kg cement

For SCC and F6 concrete | a = 700 mm

Having an initial consistency at the end of F1: approx. 15 ml per kg cement

WORKING PRINCIPLE

PANTARHIT® TB100 (FM) improves the cement dispersion within the concrete significantly. This property allows the formation of a homogenous and low-viscosity cement paste which ensures an improved workability and facilitates the compaction of concrete.

Its special built extends the processing time purposefully and meets the special requirements challenging the ready-mix concrete industry.

TECHNICAL DATA

Homogeneity	homogenous
Colour	amber
State	liquid
Density	1.07 ± 0.02 g/cm ³
pH-value	5.5 ± 1.0
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® TB100 (FM) should be added to the ready-mixed concrete.

In forced action mixers, the mixing time should be at least 60 seconds per cubic metre.

On site, concrete's mixing time in truck mixers should be 60 seconds per cubic metre, but not less than five minutes.

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!