

PANTARHIT® FT500 (FM)

Item No 0878

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

Also suitable as concrete plasticizer PANTARHIT® FT500 (BV)

FIELDS OF APPLICATION

PANTARHIT® FT500 (FM) is a high-performance superplasticizer for the production of precast concrete elements. PANTARHIT® FT500 (FM) generates high early strengths particularly at early ages and under cold weather conditions without the need of heat treatments.

PANTARHIT® FT500 (FM) has excellent plasticizing effects and is particularly suitable for producing self compacting concrete (SCC).

PANTARHIT® FT500 (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 – 2.65 mass-% of the cement content;
is equivalent to 2 – 25 ml per kg of cement.

For flow concrete (S5 ≥ 220 mm)

Having an initial consistency at the end of S1: approx. 8 ml per kg cement

For SCC

Having an initial consistency at the end of S1: approx. 12 ml per kg cement

WORKING PRINCIPLE

PANTARHIT® FT500 (FM) has an outstanding dispersing effect within the concrete mixture caused by its special steric repulsion forces. Thus, a homogenous and low-viscosity cement paste is created, which allows a remarkable improvement of both workability and compaction.

PANTARHIT® FT500 (FM) ensures an extended workability time while the hydration development proceeds simultaneously. The special formulation meets the special requirements challenging the precast concrete industry.

TECHNICAL DATA

Homogeneity	homogenous
Colour	amber
State	liquid
Density	1.05 ± 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® FT500 (FM) should be added to the ready-mixed concrete.

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

In a truck mixer, the duration of re-mixing after the main mixing process should not be less than 1 min/m³ and not less than 5 minutes after adding the admixture.

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.

Edition: 27 January 2023

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