

PANTARHIT® PC145 (FM)

Item No 0665

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

Also suitable as concrete plasticizer PANTARHIT® PC145 (BV)

FIELDS OF APPLICATION

PANTARHIT® PC145 (FM) is a high performance superplasticizer especially designed for the requirements of the precast concrete industry.

The new product formulation meets the needs of high early strength developments and may contribute to the following benefits:

- Increased early strength even without heat treatment
- Optimized energy consumption
- Reduction of stripping time
- Increase of productivity

Due to its high effectiveness PANTARHIT® PC145 (FM) is suitable for concrete of all consistency classes and enables the production of concrete design from F1 to F6 (is equivalent to S1 – S6) up to SCC.

Furthermore the superplasticizer allows the following concrete technology advantages:

- Excellent workability
- High final strengths
- Improvement of the appearance
- Reduction of water content (low w/c – ratios)
This may lead to a decrease of cement content while retaining the high quality of concrete.

PANTARHIT® PC145 (FM) may reduce the compaction energy applied to concrete. Concrete manufacturers and producers may therefore achieve an economical benefit.

DOSAGE

Recommended dosage range 0.2 – 3.5 mass-% of the cement content; is equivalent to 2 – 33 ml per kg cement.

WORKING PRINCIPLE

PANTARHIT® PC145 (FM) has an outstanding dispersing effect within the concrete mixture caused by its special steric repulsion forces. This property allows the formation of a homogenous and low-viscosity cement paste which ensures an improved workability and facilitates the compaction of concrete.

TECHNICAL DATA

Homogeneity	homogenous
Colour	amber
State	liquid
Density	1.06 ± 0.02 g/cm ³
pH-value	5 ± 1
Chloride content	< 0.10 mass-%
Alkali content (Na ₂ O-equivalent)	< 4.5 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

PANTHARHIT® PC145 (FM) should be added to the ready-mixed concrete.

The mixing time must comply with the regulations defined in DIN EN 206-1 and DIN 1045-2.

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 indications 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!