

PANTARHIT® PC831 (FM)

Item No 8231

High performance superplasticizer acc. to EN 934-2 for precast concrete with prolonged workability retention

Also suitable as concrete plasticizer PANTARHIT® PC831 (BV)

FIELDS OF APPLICATION

PANTARHIT® PC831 (FM) is a high-performance superplasticizer for precast concrete which prolongs the workability retention of concrete.

PANTARHIT® PC831 (FM) achieves high early strength in concrete even at low temperatures and without additional heat treatment. This can result in shorter stripping times and thus contribute to increased productivity and lower energy consumption.

Due to its strong plasticizing effect, PANTARHIT® PC831 (FM) is suitable for concrete of all consistency classes and enables the production of concrete design from S1 to S5 up to SCC.

Furthermore, the superplasticizer allows the following concrete technology advantages:

- Very good workability
- High final strength
- Improvement of the optical appearance
- Reduction of water content
- Low w/c-values

PANTARHIT® PC831 (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 – 3.0 mass-% of the cement content; is equivalent to 2 – 28 ml per kg cement.

WORKING PRINCIPLE

PANTARHIT® PC831 (FM) causes excellent dispersion of the cement in the concrete mix due to the steric repulsive forces. This results in a homogeneous and low-viscosity cement paste that enables significantly improved processing of the concrete.

TECHNICAL DATA

Homogeneity	homogenous
Colour	colourless to yellowish
State	liquid
Density	1.06 ± 0.02 g/cm ³
pH-value	4.0 ± 1.0
Chloride content	< 0.10 mass-%
Alkali content (Na ₂ O-equivalent)	< 8.5 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

PANTARHIT® PC831 (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.

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 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!