

PANTARHIT® C231 (FM)

Item No 8174

High performance superplasticizer acc. to EN 934-2 for concrete with accelerated early strength development

Also suitable as concrete plasticizer PANTARHIT® C231 (BV)

FIELDS OF APPLICATION

PANTARHIT® C231 (FM) is a high-performance superplasticiser with accelerating effect for the production of ready-mixed concrete and precast concrete elements at low or freezing ambient temperatures.

PANTARHIT® C231 (FM) achieves faster cement hydration with sufficient workability time and accelerates the initial hardening of the young concrete.

PANTARHIT® C231 (FM) has excellent plasticizing effects which are able to enhance concrete's consistency by several classes e.g. from F1 up to F6 (is equivalent to S1 – S5).

PANTARHIT® C231 (FM) minimises 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 – 4.0 mass-% of the cement content; is equivalent to 2 – 34 ml per kg cement.

WORKING PRINCIPLE

PANTARHIT® C231 (FM) causes excellent cement dispersion within the concrete due to the steric repulsive forces. This results in a homogeneous and low-viscosity cement paste, which ensures an improved workability and facilitates the compaction of concrete. Its special built extends the processing time purposefully.

The accelerated hydration process allows a faster hardening and early strength development of concrete.

TECHNICAL DATA

Homogeneity	homogenous
Colour	amber
State	liquid
Density	1.17 ± 0.03 g/cm ³
pH-value	5.0 ± 1.0
Chloride content	< 0.10 mass.-%
Alkali content (Na ₂ O equivalent)	< 8.5 mass.-%
Workability	from - 10 °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® C231 (FM) should be added to the ready-mixed concrete.

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