

PANTARHIT® PC110 (FM)

Item No 0854

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

Also suitable as concrete plasticizer PANTARHIT® PC110 (BV)

FIELDS OF APPLICATION

PANTARHIT® PC110 (FM) is a high-performance superplasticizer for producing precast concrete with low water/cement ratios and an enhanced early strength development.

Even at low ambient temperatures PANTARHIT® PC110 (FM) allows an exceptional early strength development particularly at early ages without the need of external heat. Stripping times might be reduced which can result in a more productive production process.

PANTARHIT® PC110 (FM) stabilises concrete's texture and minimises its segregation and bleeding tendencies.

PANTARHIT® PC110 (FM) has excellent plasticizing effects which are able to enhance concrete's consistency by several consistency classes e.g., from S1 – S5.

PANTARHIT® PC110 (FM) is particularly suitable for producing self compacting concrete (SCC).

PANTARHIT® PC110 (FM) may reduce the compaction energy applied to concrete. Concrete manufacturers and applicators may therefore achieve an economical and technical benefit.

DOSAGE

Recommended dosage range 0.2 – 2.1 mass-% of the cement content;
is equivalent to 2 – 20 ml per kg cement.

WORKING PRINCIPLE

PANTARHIT® PC110 (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 achieves an excellent plasticizing effect and extends the processing time purposefully. Therefore PANTARHIT® PC110 (FM) meets the special requirements challenging the precast concrete industry.

TECHNICAL DATA

Homogeneity	homogenous
Colour	brown
State	liquid
Density	1.06 ± 0.02 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 +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® PC110 (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.

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!