

## PANTARHIT® F (FM)

**Superplasticizer acc. to EN 934-2 with accelerating properties**

Item No 0850

Also suitable as concrete plasticizer PANTARHIT® F (BV)

### FIELDS OF APPLICATION

PANTARHIT® F (FM) is a superplasticizer with accelerating properties suitable for producing ready-mix and precast concrete.

Even at low ambient temperatures and/ or continuous freezing impacts on the poured concrete PANTARHIT® F (FM) ensures an accelerated hydration and an enhanced early strength development.

PANTARHIT® F (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 – S6).

PANTARHIT® F (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 0.4 – 4.0 mass-% of the cement content;  
is equivalent to 3 – 32 ml per kg cement.

### WORKING PRINCIPLE

PANTARHIT® F (FM) reduces the surface tension of water and ensures a strong plasticizing effect thereby. This leads on to a significant improvement in workability, processing and compaction.

The accelerated hydration process achieves an early setting and enhances concrete's early strength.

### TECHNICAL DATA

Homogeneity	homogenous
Colour	dark brown
State	liquid
Density	$1.26 \pm 0.03 \text{ g/cm}^3$
pH-value	$6 \pm 1$
Chloride content	< 0.10 mass-%
Alkali content (Na <sub>2</sub> O-equivalent)	< 8.5 mass-%
Shelf life	approx. 1 year from date of production if stored properly
Storage conditions	Store in unopened, original sealed packaging. Protect from frost and insolation.

## PROCESSING INDICATIONS

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PANTARHIT® F (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/m<sup>3</sup> and not less 5 minutes after adding the admixture.

This product is classified as hazardous according to the CLP regulations. See safety data sheet for further information.

## PACKAGING

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- 30 l can
- 200 l barrel
- 1000 l container
- loose by bulk supply

## REMARKS

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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!**