

# PANTARHIT® PC783 (FM)

Item No 8178

# High-performance superplasticizer acc. to EN 934-2 with stabilising properties

Also suitable as concrete plasticizer PANTARHIT® PC783 (BV)

# FIELDS OF APPLICATION

PANTARHIT® PC783 (FM) is a high-performance superplasticizer to produce concretes with high consistencies, low w/c ratios, and long workability retention for precast and prefabricated concrete elements.

PANTARHIT® PC783 (FM) enables high early strength developments even at low ambient temperatures and without additional external heating. This can result in shorter stripping times and thus can contribute to increased productivity.

PANTARHIT® PC783 (FM) has excellent plasticizing effects which enhances concrete's consistency by several consistency classes, e.g., from S1 to S5. The superplasticizer is also suitable for producing self-compacting concrete (SCC).

Especially during production of S5 concrete or SCC PANTARHIT® PC783 (FM) reduces concrete's tendency of bleeding significantly. Furthermore, PANTARHIT® PC783 (FM) enables an even distribution of the aggregates in the concrete. Therefore, the product is particularly suitable to produce façade elements, concretes in car park constructions and for industrial floors, whose surfaces are ground and/or polished.

PANTARHIT® PC783 (FM) may reduce the compaction energy applied to concrete. Concrete manufacturers and applicators may therefore achieve an economical and technical benefit.

# **WORKING PRINCIPLE**

Due to the steric repulsive forces PANTARHIT® PC783 (FM) improves the cement dispersion within the concrete significantly. This results in a homogenous and low-viscosity cement paste which ensures an improved workability and facilitates the compaction of concrete.

The superplasticiser enables prolonged workability retention while the hydration process progresses at the same time.

#### TECHNICAL DATA

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Homogeneity	homogenous
Colour	amber
State	liquid
Density	1.07 ± 0.02 g/cm <sup>3</sup>
pH-value	5.5 ± 1.0
Chloride content	< 0.10 mass-%
Alkali content (Na <sub>2</sub> O equivalent)	< 4.0 mass-%
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Workability	from +1 °C
Shelf life	approx. 1 year from date of production if stored properly
Storage conditions	Store in unopened, original sealed packag- ing between +5 °C and +25 °C. Protect from frost and insolation.



# PROCESSING INDICATIONS

PANTARHIT® PC783 (FM) should be added to the ready-mixed concrete.

The mixing time must comply with the regulations defined in EN 206-1.

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.

## **DOSAGE**

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

For flow concrete (S5 ≥ 220 mm)

At an initial consistency end S1: approx. 8 ml per kg cement.

#### For SCC

At an initial consistency end S1: approx. 12 ml per kg cement.

#### **PACKAGING**

- 30 I can
- 200 l barrel
- 1000 I 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!