

PANTARHIT® RC176 (FM)

Item No 0846

High performance superplasticizer acc. to EN 934-2 for concrete with high workability retentions

Also suitable as concrete plasticizer PANTARHIT® RC175 (BV)

FIELDS OF APPLICATION

PANTARHIT® RC176 (FM) is a high performance superplasticizer for producing ready-mix concrete that requires performing under challenging conditions like high concrete- and ambient temperatures, long conveying distances and demanding cements or aggregates.

The special polymer configuration allows high workability retentions and is able to delay concrete's setting characteristics. Significant changes in framework conditions may lead to higher consistencies.

PANTARHIT® RC176 (FM) has excellent plasticizing effects which are able to enhance concrete's consistency by several consistency classes e.g. from F1 up to F6 (is equivalent to S1 – S6). PANTARHIT® RC176 (FM) is especially suitable for producing self compacting concrete (SCC).

PANTARHIT® RC176 (FM) may reduce 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 – 3.0 mass-% of the cement content;
 is equivalent to 2 – 28 ml per kg cement.

Precondition tests are necessary! Apply framework conditions correspondingly to precondition tests during the concreting process!

WORKING PRINCIPLE

PANTARHIT® RC176 (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.

TECHNICAL DATA

Homogeneity	homogenous
Colour	amber
State	liquid
Density	1.06 ± 0.02 g/cm ³
pH-value	5.5 ± 1
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® RC176 (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 EC directives, regulations on hazardous substances and forwarding instructions. The generally accepted precautions for handling chemicals must be followed. The corresponding Material Safety Data Sheet is available upon request.

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!