

# PANTARHIT® FM 230

Superplasticizer for concrete

Item No 8109/D

## FIELDS OF APPLICATION

PANTARHIT® FM 230 is a superplasticizer for producing high quality concrete and suitable for applying in both precast and ready-mix plants.

The superplasticizer enhances concrete's workability, advances its slump retention and improves its trowellability. PANTARHIT® FM 230 allows reducing the incidence of cold joints.

PANTARHIT® FM 230 is applied to enhance concrete's consistency by several consistency classes or in order to reduce the quantity of tempering water.

## DOSAGE

Recommended dosage range 0.2 – 2.5 mass-% of the cement content.

## STANDARD COMPLIANCE

PANTARHIT® FM 230 conforms to BS EN 934-2 and meets the requirements of ASTM C494 Type F/G.

## WORKING PRINCIPLE

PANTARHIT® FM 230 reduces the surface tension of water and ensures a strong plasticizing effect thereby. This leads on to a significant improvement in concrete's workability, pumping, levelling and compaction.

PANTARHIT® FM 230 does not entrain any air voids into the concrete but even reduces them. The setting of concrete is not impaired.

## TECHNICAL DATA

Homogeneity	homogenous
Colour	dark brown
State	liquid
Density	1.17 ± 0.03 g/cm <sup>3</sup>
pH-value	7.0 ± 1.0
Chloride content	chloride free acc. to BS EN 934-2
Workability	from +1 °C
Shelf life	approx. 1 year from date of production if stored properly
Storage conditions	Store under cover, out of direct sunlight and protect from extremes of temperature.

## PROCESSING INDICATIONS

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PANTARHIT® FM 230 should be added to the ready-mixed concrete.

For the recommended mixing time the definitions and regulations of EN 206-1 apply.

## COMPATIBILITY

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PANTARHIT® FM 230 is suitable for concrete designs containing OPC or SRC cement, micro-silica or silica fume, fly ash (PFA), ground granulated blast furnace slag (GGBS) and bentonite.

PANTARHIT® FM 230 should not be used in conjunction with any PCE based admixture.

When using other Ha-Be admixtures in the same concrete mixture, the products should be added separately and must not be blended prior to addition! Using more than one admixture requires suitability and preliminary tests in order to ensure the required combination of its effects is attained.

## PACKAGING

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

## HEALTH & SAFETY

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This product is not classified as hazardous according to the current regulations. Refer to the corresponding Material Safety Data Sheet for further advice.

## 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 indications 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: 02 February 2021

**SUITABILITY- AND PRELIMINARY TESTS ARE NECESSARY BEFORE APPLYING THE CONCRETE ADMIXTURE!**