

PANTARHIT® FM 225

Superplasticizer for ready-mix concrete

Item No 0809/E

FIELDS OF APPLICATION

PANTARHIT® FM 225 is a sulphonated superplasticizer for producing durable ready-mix concrete under hot weather conditions.

PANTARHIT® FM 225 is especially formulated for concrete where good workability, slump retention, water reduction and compressive strength is required.

PANTARHIT® FM 225 has excellent plasticizing effects which are able to enhance concrete's consistency by several consistency classes e.g. from S1 up to S5.

These combined effects allow the production of high quality concrete.

DOSAGE

The general dosage range is 0.2 – 2.5 mass-% of the cement content.

A significant overdosing of PANTARHIT® FM 225 may lead to an increased workability and to an elongated set retardation of concrete. Using an appropriate curing for concrete the final strength development will not be impaired.

STANDARD COMPLIANCE

PANTARHIT® FM 225 conforms to ASTM C494 Type G and BS EN 934-2.

WORKING PRINCIPLE

PANTARHIT® FM 225 reduces the surface tension of water and ensures a strong plasticizing effect thereby. This leads on to a significant improvement in concrete's workability, pumpability, levelability and compaction.

TECHNICAL DATA

Homogeneity	homogenous
Colour	dark brown
State	liquid
Chemical base	naphthalene
Density	1.16 ± 0.03 g/cm ³
pH-value	7.0 ± 1.0
Chloride content	chloride free acc. to BS EN 934-2
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 under cover, out of direct sunlight and protect from extremes of temperature.

PROCESSING INDICATIONS

PANTARHIT® FM 225 should be added to the ready-mixed concrete.

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

COMPATIBILITY

PANTARHIT® FM 225 is suitable for concrete designs containing OPC or SRC cement, micro-silica or silica fume, fly ash (PFA) and ground granulated blast furnace slag (GGBS).

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

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

HEALTH & SAFETY

This product is not classified as hazardous according to the CLP regulations. See safety data sheet for further information.

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 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.

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