

PANTARHIT® FM 104

Superplasticizer for concrete

Item No 0682/E

FIELDS OF APPLICATION

PANTARHIT® FM 104 is a superplasticizer for producing high quality concrete and suitable for both precast and ready-mix concrete applications.

The sulphonated superplasticizer enhances concrete's workability, advances its slump retention and improves its trowel ability.

PANTARHIT® FM 104 is applied to enhance concrete's consistency by several consistency classes or in order to reduce the quantity of tempering water.

DOSAGE

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

STANDARD COMPLIANCE

PANTARHIT® FM 104 conforms to BS EN 934-2 and meets the requirements of ASTM C494 Type F.

WORKING PRINCIPLE

PANTARHIT® FM 104 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 104 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
Chemical base	naphthalene sulphonat
State	liquid
Density	1.20 ± 0.03 g/cm ³
pH-value	6,5 ± 1
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 104 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 104 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).

PANTARHIT® FM 104 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

- 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 current regulations. Refer to the corresponding Material Safety Data Sheet for further advice.

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.

Edition: 26th November 2018

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