

PANTARHIT® RMC 454

Item No 0885/D

VMA combined high-range superplasticizer for high quality concrete

FIELDS OF APPLICATION

PANTARHIT® RMC 454 is a high-range superplasticizer for producing high quality ready-mix concrete with significantly reduced water demands and high workability retention properties.

PANTARHIT® RMC 454 is a 2 in 1 product. It combines a stabilizing and a superplasticizing part.

The superplasticizer is based on the latest PCE technology and therefore especially suitable for producing self compacting concrete (SCC), semi-SCC and concrete which needs to satisfy compressive strength requirements of C60 or higher indication classes.

PANTARHIT® RMC 454 is an excellent product for high flow able concrete and high strength concrete.

DOSAGE

The generally dosage range is 0.2 – 3.0 mass-% of the cement content.

A significant overdosing of PANTARHIT® RMC 454 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® RMC 454 conforms to BS EN 934-2 and meets the requirements of ASTM C494 Type F.

WORKING PRINCIPLE

PANTARHIT® RMC 454 improves the cement dispersion within the concrete significantly. This property allows the formation of a homogenous and low-viscosity cement paste which provides flow able concrete with high reduced water contents.

The special built of PANTARHIT® RMC 454 extends the processing time purposefully and meets the special requirements challenging the ready-mix concrete industry.

TECHNICAL DATA

Homogeneity	homogenous
Colour	amber
State	liquid
Density	1.12 ± 0.03 g/cm ³
pH-value	7.5 ± 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®RMC 454 should be added to the ready-mixed concrete.

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

COMPATIBILITY

PANTARHIT®RMC 454 is suitable for concrete designs containing Portland or SRC cement, micro-silica or 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. Do not mix it with any Naphthalene based admixtures!

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!