

PANTARHIT® RMC 501

Item No 0838/D

Universally applicable PCE-superplasticizer for high quality and durable ready-mix concrete

FIELDS OF APPLICATION

PANTARHIT® RMC 501 is a superplasticizer for producing high quality ready-mix concrete with significantly reduced water demand and high workability retention properties.

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 achieve compressive strength requirements of C80 or higher indication classes.

PANTARHIT® RMC 501 has excellent plasticizing effects which are able to enhance concrete's consistency by several consistency classes e.g. from S1 up to S6.

WORKING PRINCIPLE

PANTARHIT® RMC 501 improves the cement dispersion within the concrete significantly. This property allows the formation of a homogenous and low-viscosity cement paste which provides flowable concrete with substantially reduced water content.

The special built of PANTARHIT® RMC 501 extends the processing time purposefully and meets the special requirements challenging the ready-mix concrete industry.

STANDARD COMPLIANCE

PANTARHIT® RMC 501 conforms to ASTM C494 Type F & G and BS EN 934-2.

TECHNICAL DATA

Homogeneity	homogenous
Colour	dark brown
State	liquid
Density	1.09 ± 0.03 g/cm ³
pH-value	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 direct exposure to solar radiation.

DOSAGE

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

A significant overdosing of PANTARHIT® RMC 501 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.

PROCESSING INDICATIONS

PANTARHIT[®] RMC 501 should be added to the ready-mixed concrete.

In forced action mixers the mixing time should be at least 60 seconds per cubic metre.

On site, concrete's mixing time in truck mixers should be 60 seconds per cubic metre, but not less than five minutes.

COMPATIBILITY

PANTARHIT[®] RMC 501 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[®] RMC 501 should not be used in conjunction with any naphthalene 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.

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