

## PANTARHIT® RMC 220

Item No 0847/D

**Mid - Range superplasticizer for high durability concrete**

### FIELDS OF APPLICATION

PANTARHIT® RMC 220 is a mid - range superplasticizer for producing high quality ready-mix concrete with significantly reduced water demand and high workability retention properties especially in combination with GGBS.

The PCE-based product optimises concrete's early strength development and advances its placing characteristics.

PANTARHIT® RMC 220 has excellent plasticizing effects which are able to enhance concrete's consistency by several consistency classes e.g. from S1 up to S6 and is especially suitable for producing self compacting concrete (SCC).

PANTARHIT® RMC 220 reduces the compaction energy applied to concrete. Concrete manufacturers and applicators may therefore achieve an economical and technical benefit.

### DOSAGE

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

A significant overdosing of 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 220 conforms to BS EN 934-2.

### WORKING PRINCIPLE

PANTARHIT® RMC 220 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 formulation of PANTARHIT® RMC 220 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	1.08 ± 0.02 g/cm <sup>3</sup>
pH-value	5,5 ± 1
Chloride content	chloride free acc. to BS EN 934-2
Alkali content (Na <sub>2</sub> 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

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PANTARHIT<sup>®</sup> RMC 220 should be added to the ready-mixed concrete.

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

## COMPATIBILITY

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PANTARHIT<sup>®</sup> RMC 220 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<sup>®</sup> RMC 220 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

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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: 21. April 2015

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