

## PANTARHIT® RMC 414

High-Range superplasticizer for high quality concrete

Item No 0887/D

### FIELDS OF APPLICATION

PANTARHIT® RMC 414 is a high-range superplasticizer for producing high quality ready-mix concrete with significantly reduced water demands and high workability retention properties.

The superplasticizer is based on the latest PCE technology and therefore especially suitable for producing self compacting concrete (SCC), smart dynamic concrete (SDC) and concrete which needs to satisfy compressive strength requirements of C70 or higher indication classes.

PANTARHIT® RMC 414 is an excellent product for high flow able concrete and high strength concrete.

### DOSAGE

The generally dosage range is 0.2 – 2.0 mass-% of the cement content.

A significant overdosing of PANTARHIT® RMC 414 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 414 conforms to BS EN 934-2 and meets the requirements of ASTM C494 Type F/G.

### WORKING PRINCIPLE

PANTARHIT® RMC 414 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 414 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 ± 0.02 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® RMC 414 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® RMC 414 is suitable for concrete designs containing Portland or SRC cement, microsilica 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

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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.

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