

## PANTARHIT® RMX 997

Item No 8118/D

**High-range superplasticizer for producing low-viscosity concrete**

### FIELDS OF APPLICATION

PANTARHIT® RMX 997 is a high-range superplasticizer, especially designed to optimise the rheology in ready-mix concrete requiring to perform under challenging conditions.

The PCE-based polymer selection supports the production of low-viscosity concrete and is suitable for all concrete applications where optimised flowability and excellent processing characteristics are of crucial importance.

PANTARHIT® RMX 997 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).

The rheology optimising admixture is moreover able to provide the following benefits:

- Reduction of water demand (low w/c ratios)
- High workability retention properties
- Optimised flowability
- Excellent processing and placing characteristics
- Increased pumpability
- Excellent smoothing properties
- Good stability of concrete mix
- Fast dispersion which allows short mixing times
- More productive production times
- Excellent early strength development

PANTARHIT® RMX 997 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.

### STANDARD COMPLIANCE

PANTARHIT® RMX 997 conforms to ASTM C494 Type F & G and BS EN 934-2.

### WORKING PRINCIPLE

PANTARHIT® RMX 997 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® RMX 997 extends the processing time purposefully and meets the special requirements challenging the ready-mix concrete industry.

### TECHNICAL DATA

Homogeneity	homogenous
Colour	light blue
State	liquid
Density	1.10 ± 0.02 g/cm <sup>3</sup>
pH-value	4.5 ± 1.0
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® RMX 997 should be added to the ready-mixed concrete.

For the recommended mixing time, the definitions and regulations of EN 206-1 apply.

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.

## COMPATIBILITY

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PANTARHIT® RMX 997 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® RMX 997 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.

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