

# PANTARHIT® RSM 200

Item No 0404

**Admixture for the production of annular grout mixes used in TBM tunneling**

## FIELDS OF APPLICATION

PANTARHIT® RSM 200 is a powerful admixture especially designed for the production of high performing annular grout mixes for injection behind segmental tunnel linings.

PANTARHIT® RSM 200 has a plasticizing effect on annular grout mixes while retarding its initial and final setting.

This allows an optimized workability and a purposeful extension of processing time. Additionally, the special formulation of the admixture is able to provide a stabilising effect.

These features enable an extended storability of the annular grout in the pumping lines and grout agitator tanks on the TBM.

The application of PANTARHIT® RSM 200 enables increasing the compressive, tensile and flexural strength of annular grout mixes

The special formulation of PANTARHIT® RSM 200 allows the application of the product as conditioning admixture in one or two component grouting systems.

## DOSAGE

Due to the different compositions of annular grout mixes, the necessary dosage quantity varies and needs to be determined in field trials.

For further assistance, please contact your local Ha-Be application department.

## WORKING PRINCIPLE

PANTARHIT® RSM 200 disperses annular grout mixes while retarding the initial and final setting. Therefore the admixture is able to allow reductions in the water content or to improve the workability without the addition of extra water.

PANTARHIT® RSM 200 delays the hydration process and extends the workability time of annular grout mixes purposefully.

## TECHNICAL DATA

Homogeneity	homogenous
Colour	brown
State	liquid
Density	1.14 ± 0.03 g/cm <sup>3</sup>
pH-value	7.0 ± 1
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® RSM 200 should be added to the ready-mixed grout.

The mixing time in mixers with a high mixing intensity should be at least 30 seconds.

An over dosage will result in increased retardation of initial and final set or an increase in workability.

This product is not classified as hazardous according to the EC directives, regulations on hazardous substances and forwarding instructions. The generally accepted precautions for handling chemicals must be followed. The corresponding Material Safety Data Sheet is available upon request.

## PACKAGING

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- 30 l can
- 200 l barrel
- 1000 l container
- loose by bulk supply

## 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 indication 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 PRE-TESTS ARE NECESSARY BEFORE APPLYING THE ADDITIVE!**