

# PANTARHIT® RSM 130

Item No 0407

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

## FIELDS OF APPLICATION

PANTARHIT® RSM 130 is a high performance admixture especially designed to control the setting of annular grout mixes for injection behind segmental tunnel linings.

PANTARHIT® RSM 130 retards the initial and final setting of annular grout mixes and allows a purposeful extension of workability time. Additionally, the special formulation of the powerful 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 130 enables increasing the compressive, tensile and flexural strength of annular grout mixes

The special formulation of PANTARHIT® RSM 130 allows the application of the product as conditioning admixture in one or two component grouting systems.

The maintenance of workability using PANTARHIT® RSM 130 (up to 72 hours after batching) minimize risks of choking pipelines and grout cars.

## 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 130 delays the hydration process and extends the workability time of annular grout mixes purposefully.

## TECHNICAL DATA

Homogeneity	homogenous
Colour	dark brown
State	liquid
Density	1.26 ± 0.03 g/cm <sup>3</sup>
pH-value	8.5 ± 1
Workability	from +1 °C
Chloride content	< 0.10 mass-%
Alkali content (Na <sub>2</sub> O equivalent)	< 8.5 mass-%
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 insolation.



Ha-Be Tunnel Team

## PROCESSING INDICATIONS

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PANTARHIT® RSM 130 should be added to the ready-mixed grout.

The mixing time must comply with the regulations defined in EN 206-1.

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 CLP regulations. See safety data sheet for further information.

## 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!**