

PANTARHIT® PRC 222

Item No 0892/D

Mid-range superplasticizer for high early strength development in precast concrete

FIELDS OF APPLICATION

PANTARHIT® PRC 222 is a superplasticizer especially designed for meeting the requirements in the precast concrete industry.

The superplasticizer is suitable for all precast applications where concrete essentials high early strength. These challenges are also required in segmental lining productions and for casting the tunnel inner shell.

Securing a high early strength development – particularly at very early ages – stripping times in productions may be reduced and the construction processes on site can be improved.

PANTARHIT® PRC 222 allows the production of stabile concrete that ensures a high workability without segregation and bleeding.

PANTARHIT® PRC 222 may reduce the compaction energy applied to concrete. Concrete manufacturers, contractors and applicators may therefore achieve an economical and technical benefit.

DOSAGE

The general dosage range is 0.2 – 3.0 mass-% of the cement content.

STANDARD COMPLIANCE

PANTARHIT® PRC 222 conforms to BS EN 934-2 T3.1 & 3.2. & ASTM C 494 Type F.

WORKING PRINCIPLE

PANTARHIT® PRC 222 improves the cement dispersion within the concrete significantly. This property allows the formation of a homogenous and low-viscosity cement paste which ensures an improved workability and facilitates the compaction of concrete.

Its special compound extends the processing time purposefully and meets the special requirements challenging the precast concrete industry.

TECHNICAL DATA

Homogeneity	homogenous
Colour	amber
State	liquid
Density	1.06 ± 0.02 g/cm ³
pH-value	3.5 ± 1
Chloride content	chloride free acc. to DIN EN 934-2
Alkali content (Na ₂ 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

PANTARHIT® PRC 222 should be added after or with minimum 70% of water content.

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

COMPATIBILITY

PANTARHIT® PRC 222 is suitable for concrete designs containing OPC or SRC cement, microsilica or silica fume, 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.

PACKAGING

- 30 l can
- 200 l barrel
- 1,000 l container
- loose by bulk supply

HEALTH & SAFETY

This product is not classified as hazardous according to the current regulations. See corresponding Material Safety Data Sheet for further information.

REMARKS

This information describes the application- and processing possibilities of a product and its working principles under regular conditions. Having no influence on 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 suitability 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 latest issued Technical Data Sheet is valid and submitted upon request. All orders accepted are subject to our current general terms and conditions.

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