

PANTARHIT® T945 X

Item No P945/E

High performance superplasticizer for high early strength concrete

Also suitable as concrete plasticizer PANTARHIT® T945 X

FIELDS OF APPLICATION

PANTARHIT® T945 X is a high performance superplasticizer used for concrete for precast elements, such as tunnel segments, bridge elements or elements for further infrastructure construction projects.

PANTARHIT® T945 X achieves very high early strength of the concrete. Due to its strong plasticizing effect it also attains good workability retention.

DOSAGE

Recommended dosage range 0.2 – 4.0 mass-% of the cement content.

STANDARD COMPLIANCE

PANTARHIT® T945 X conforms to ASTM C494 Type F and BS EN 934-2.

WORKING PRINCIPLE

PANTARHIT® T945 X 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.

TECHNICAL DATA

Homogeneity	homogenous
Colour	colourless to yellowish
Chemical base	mod. PCE
State	liquid
Density	1.21 ± 0.03 g/cm ³
pH-value	3.0 ± 1.0
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.



Ha-Be Tunnel Team

PROCESSING INDICATIONS

PANTARHIT® T945 X 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® T945 X is suitable for concrete designs containing OPC or SRC cement, micro-silica or silica slurry, 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
- 1000 l container
- loose by bulk supply

HEALTH & SAFETY

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

REMARKS

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.

The management system of Ha-Be Egypt is certified to ISO 9001:2015.



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



Ha-Be Tunnel Team