

PANTARHIT® 47 K

High effective plasticizer for concrete

Item No 0104/D

FIELDS OF APPLICATION

PANTARHIT® 47 K is a sulphonated plasticizer with slight retarding effects and particularly suitable for producing ready-mix concrete under hot weather conditions.

The product is mainly formulated for concrete applications where good workability and high slump retention are required. Delaying the initial and final setting of concrete PANTARHIT® 47 K allows avoiding the incidence of cold joints.

PANTARHIT® 47 K is applied to enhance concrete's consistency classes e.g. from S2 up to S3 or to reduce the quantity of tempering water.

DOSAGE

The general dosage range is 0.2 – 1.0 mass-% of the cement content.

STANDARD COMPLIANCE

PANTARHIT® 47 K conforms to ASTM C494 Type A & D and BS EN 934-2.

WORKING PRINCIPLE

PANTARHIT® 47 K reduces the surface tension of water and ensures a strong plasticizing effect thereby. This leads on to a significant improvement in concrete's workability, pumpability, levelability and compaction.

TECHNICAL DATA

Homogeneity	homogenous
Colour	dark brown
State	liquid
Density	1.24 ± 0.03 g/cm ³
pH-value	6.5 ± 1
Chloride content	< 0.10 mass-%
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[®] 47 K should be added to the ready-mixed concrete.

In forced action mixers the mixing time should be at least 60 seconds per cubic metre.

COMPATIBILITY

PANTARHIT[®] 47 K 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).

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 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!