

PANTAPOR 55

Concentrated Air Entraining Agent for Concrete

Item No 0255/D

FIELDS OF APPLICATION

PANTAPOR 55 is an air entraining agent especially suited for producing light weight concrete with low density. The product improves the fresh concrete workability considerably and enhances the water resisting properties of the hardened concrete.

PANTAPOR 55 optimises the concrete workability and considerably reduces bleeding and segregation tendencies.

DOSAGE

Recommended dosage range 0.20 – 2.00 mass-% of the cement content;
is equivalent to 2.0 – 20 ml per kg cement.

The addition of 1.5 ml per kg cement achieves approx. 15.0 – 16.0 vol.-% of air voids in concrete.

STANDARD COMPLIANCE

PANTAPOR 55 conforms to BS EN 934-2 & ASTM C 260

WORKING PRINCIPLE

PANTAPOR 55 ensures the formation of a stable micro air pore system in the concrete. The air pores interrupt the capillary system in concrete which reduces the penetration of water significantly.

TECHNICAL DATA

Homogeneity	homogenous
Colour	yellowish
State	liquid
Density	1.02 ± 0.02 g/cm ³
pH-value	8 ± 1
Chloride content	chloride free acc. to BS 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	Protect from extreme temperatures and direct solar radiation.

PROCESSING INDICATIONS

PANTAPOR 55 is either added to the tempering water or to the ready mixed concrete.

The required mixing time depends on many different parameters and needs to be determined in pre-tests. The defined mixing time is to be observed.

Achieving the desired content of entrained air depends on many factors e.g. the mix design, consistency, mixing time, transport conditions and many other variables. The content of air pores must be controlled permanently.

Efficacy tests for adding suitable PANTARHIT® - high performance superplasticizers, superplasticizers and plasticizers are available upon request.

COMPATIBILITY

PANTAPOR 55 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). It is compatible with any other Ha-Be plasticizer or superplasticizer.

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
- by bulk supply

HEALTH & SAFETY

This product is classified as hazardous material according to the current CLP regulation. See Material Safety Data Sheet for handling instructions.

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.

Edition: 07 November 2019

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