

# PANTARHOL® 100

Item No 0900

**Combi admixture (air entrainer, retarder and stabiliser) for ready-mixed mortar**

## FIELDS OF APPLICATION

PANTARHOL® 100 is a ready-to-use admixture which combines an air entrainer, retarder and stabiliser to one product.

PANTARHOL® 100 is suitable for producing ready-mixed mortar. The air entraining and retarding systems generate a smooth mortar with an improved workability and extended consistency retention for usually up to 36 hours.

The stabilising component reduces segregation and bleeding tendencies and stabilises mortar's texture.

## DOSAGE

Recommended dosage range 0.2 – 2.3 mass-% of the cement content; is equivalent to 2 – 21 ml per kg cement.

Recommended dosage for a consistency retention for up to 36 hours

Air temperature in °C	Dosage per 100 kg Cement	
	in litre	in kg
15	0,8	0,9
20	1,0	1,1
25	1,2	1,4

According to these guidelines, approx. 20% volume of air is entrained.

The required dosage ranges needs to be determined in each individual case.

## WORKING PRINCIPLE

PANTARHOL® 100 retards the hydration process, induces a plasticizing effect in the fresh mortar and allows a good processing.

The produced mortar has excellent adhesion characteristics which facilitates the placement on masonry and bricklaying constructions.

## TECHNICAL DATA

Homogeneity	homogenous
Colour	yellowish
State	liquid
Density	1.12 ± 0.03 g/cm <sup>3</sup>
pH-value	10 ± 1
Chloride content	< 0.10 mass.-%
Alkali content (Na <sub>2</sub> O equivalent)	< 1.0 mass.-%
Workability	from +1 °C
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.

## PROCESSING INDICATIONS

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PANTARHOL® 100 can be applied with all types of standard cement, lime and fly ash (filler). Absorbent aggregates have to be pre-damped or pre-wetted.

PANTARHOL® 100 can be added to the tempering water or directly into the truck mixer.

In forced action mixers, the mixing time should be at least 2 minutes.

In truck mixers, the mixing time should be approx. 10 minutes.

**PANTARHOL® 100 does not become unusable by freezing. After thawing, just mix well before further use!**

This product is not classified as hazardous according to the EC directives, regulations on hazardous substances and forwarding instructions. The generally accepted precautions for handling chemicals must be followed. The corresponding Material Safety Data Sheet is available upon request.

## PACKAGING

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- 30 l can
- 200 l barrel
- 1000 l container
- loose by bulk supply

## SPECIAL INDICATIONS

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The retarding effect is reduced by solar insolation and windy conditions. During breaks or at the end of the working day the produced mortar should therefore be covered with foil or a thin layer of water.

In order to ensure an exploited hydration process, high absorbent stones (e.g. sand lime bricks) should be pre-damped or wetted in the wall.

## 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 CONCRETE ADMIXTURE!**