

PANTAQUICK SCA120 AFL

Item No 0520/D

Liquid alkali-free accelerator for shotcrete applications in dry and wet process

FIELDS OF APPLICATION

PANTAQUICK SCA120 AFL is a highly effective liquid alkali-free accelerator especially designed for shotcrete applications in dry and wet spraying process.

PANTAQUICK SCA120 AFL is generally suitable for all applications where high early and final strengths are required, such as

- Excavation support in tunnelling and underground construction
- Support in mine and gallery construction
- Rock support lining
- Surface sealing
- Slope stabilisation

PANTAQUICK SCA120 AFL offers the following benefits:

- High initial and early strength developments
- High final strength
- Good workability
- Low pH-value
- Dense sprayed concrete
- Less rebound due to excellent adhesion
- Reduced thickness of sprayed concrete lining
- Facilitates overhead spraying
- Improved working conditions due to reduced dust
- No health hazards during transportation, storage and processing
- Contribution to sustainability due to economic use of concrete and alkali-free compounds

DOSAGE

Recommended dosage range 3 - 10 mass-% of the cement content;
is equivalent to 23 - 77 ml per kg cement.

The necessary admixture quantity depends on the required early strength developments and needs to be determined in preliminary test for each individual application. The Ha-Be Tunnel Team will support the development accordingly.

WORKING PRINCIPLE

PANTAQUICK SCA120 AFL accelerates the setting and the initial strength of concrete. The early and final strength are thereby increased.

TECHNICAL DATA

Homogeneity	shake before using
Colour	colourless to white
State	liquid
Density	1.30 ± 0.03 g/cm ³
pH-value	3.0 ± 1.0
Chloride content	< 0.1 mass-%
Alkali content (Na ₂ O equivalent)	< 1.0 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.



Ha-Be Tunnel Team

PROCESSING INDICATIONS

PANTAQUICK SCA120 AFL is suitable for both the dry and wet spray processes and is added at the nozzle.

Prior to the use of PANTAQUICK SCA120 AFL all components (dosing pump, hoses) must be thoroughly cleaned.

Preliminary tests to control the setting time are highly recommended.

PACKAGING

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

HEALTH & SAFETY

This product is 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 is 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!