

PENTENS FAST-1

Hardening Accelerating Admixtures

Product Data Sheet

Description

PENTENS FAST-1 is a new generation hardening accelerator for concrete and mortar. It shortens the setting time of concrete, allowing a cold-weather pour, early removal of forms, early surface finishing and in some cases, early load application without negatively influencing final strengths.

Uses

PENTENS FAST-1 does not contain any chlorides and can therefore be used without any reservations for reinforced as well as prestressed concrete. However, it should not be used in combination with expanding or shrink compensating admixtures.

Advantages

PENTENS FAST-1 is normally used in combination with a superplasticizer. The addition of PENTENS FAST-1 does not change the positive properties (e.g. fluidifying, stiffening behavior etc.) of the superplasticizer.

Depending on the dosage of PENTENS FAST-1, an increase in early strengths during the first 24 hours of up to 100% in comparison with normal concrete can be achieved.

Technical & Physical Data

Basis	Mixture of organic and inorganic complexing agents
Appearance	Reddish liquid
Density	1.17 kg/liter
pH-Value	8.5±1.0
Storage	Store protected from direct sunshine at temperatures between 5°C to 35°C
Shelf Life	12 months from date of production if stored properly in original unopened packing.
Packaging	20 kg /pail 200 kg /drum

Instruction for Use

Dosage

Depending on desired acceleration effect, 0.5-1.5% by weight of cement.

Concrete placing

The standard rules of good concrete production and placing must also be observed when PENTENS FAST-1 is being used. Optimal curing of the fresh concrete is a must, especially at low temperatures. The temperature of fresh concrete during placement should not be lower than +5°C.

In case of danger of frost, winter precautions must be implemented and maintained until concrete has developed 10 N/mm² (freeze-resistance).

Combinations

PENTENS FAST-1 can be sensibly combined with any non-retarded PENTENS plasticizer or superplasticizer. Test must be carried out in combination with such products.

Safety Precautions

Any accidental splashes on the skin must be washed off with water and soap. In case of contact with eyes or mucous membrane, rinse with clean warm water and seek medical treatment without delay.

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