

StenMix® QUICK SCA-160



1. Product Description

StenMix® QUICK SCA-160 is a ready-to-use set accelerator-based on sodium aluminate. **StenMix® QUICK SCA-160** can be used for set acceleration of all cement-based concrete. It is used particularly in shotcrete applications. It increases early strength without compromising ultimate strength.

2. Uses

StenMix® QUICK SCA-160 can be used where accelerated setting, hardening and increase in strength of concrete are required. It is used particularly for wet mix shotcrete applications where substantially reduced setting times are required. **StenMix® QUICK SCA-160** is used to accelerate shotcrete applications such as tunnel lining, ground consolidation, slope and embankment construction, and surface repair.

It can be used in a concrete formulation with a low cracking tendency and high-strength gain in the first 24 hours. It is suitable for cold weather use.

3. Application

The recommended dosage for **StenMix® QUICK SCA-160** is 4 to 8 percent by weight of cement for shotcrete applications. Lower dosages can be used for a milder acceleration effect. The exact dosage depends on the concrete design used and the application requirements. Therefore, the actual amount must be determined by on-site trials. **StenMix® QUICK SCA-160** is compatible with the majority of mineral admixtures and liquid admixtures. However, interactions between admixtures must be investigated by on-site trials.

4. Safety

It is a caustic material with high pH. Applicators and supervisors must read the Safety Data Sheet (SDS) carefully and follow the instructions provided. Proper use of personal protective equipment must be ensured.

Emptied packages must be disposed of in compliance with relevant regulations and laws.

5. Storage

The material must be kept in dry indoor storage. Products must be stored at +5 °C to +35 °C in enclosed storage protected from direct sunlight. When stored in unopened packaging, the shelf life is 6 months.

Protect the product from freezing. Low temperatures may cause crystallization of the product; in this case, the product can be used after being warmed to +20 °C and homogenized. After prolonged storage, the product must be stirred thoroughly before use.

6. Disclaimer

This document is provided for general information and is based on **Stenkim®**'s laboratory data and field experience at the time of publication. **Stenkim®** reserves the right to revise this information without prior notice.

Stenkim® warrants that its products conform to the stated specifications on delivery. The buyer is responsible for determining the product's suitability for the intended purpose and for all conditions of transport, storage,

Sodium Aluminate-Based Set-Accelerating Concrete Admixture

Highlights

- Increases the early strength of the concrete
- Shortens the initial and final setting times
- Ready to use for spray applications
- Compatible with other concrete admixtures



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application, and use. **Stenkim®** accepts no liability for results obtained under conditions outside its control. **Stenkim®**'s liability under this warranty is limited to replacement of non-conforming product and excludes any consequential or indirect damages.

7. Technical Data

Property	Method	Result
Appearance - Color		Colorless, Semi-Transparent
Odor		Odorless
Chemical Composition		Sodium aluminate solution
Density @20 °C	EN ISO 2811-2	1.49 ± 0.02 g/cm ³
pH (1% aqueous solution)		12.2 ± 1
Solids Content (by weight)		60% ± 2%
Shelf Life		6 months
Packaging		1,400 kg IBCs or in bulk

Stenkim® reserves the right to make changes to the values in this table at any time.



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