

1. Product Description

StenMix® QUICK SCA-3 is a ready-to-use set accelerator-based on aluminum sulfate. **StenMix® QUICK SCA-3** can be used for set acceleration of all cement-based concrete. It is used particularly in shotcrete applications.

It can be used in dry-mix and wet-mix applications. It increases early strength without compromising ultimate strength.

2. Uses

StenMix® QUICK SCA-3 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-3** 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-3** 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. The material is mixed with wet concrete at the application nozzle. The mixing and metering must be carefully monitored at all times.

StenMix® QUICK SCA-3 is compatible with the majority of mineral admixtures and liquid admixtures. However, interactions between admixtures must be investigated by on-site trials.

4. Safety

Applicators and supervisors must read the Safety Data Sheet (SDS) carefully and follow the instructions provided. Emptied packages must be disposed of in compliance with relevant regulations and laws. The application must be carried out by skilled workers under the supervision of experts and the applicators must use all personal protective equipment required for the worksite and the task such as goggles, mask and gloves.

5. Storage

The material must be kept in dry indoor storage. Protect the product from freezing. 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. 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.

Alkali-Free 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
- Alkali free
- 28-day strength equivalent to that of unaccelerated concrete



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, 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		Acidic
Chemical Composition		Aluminum sulfate solution
Density @20 °C	EN ISO 2811-2	1.37 ± 0.02 g/cm ³
pH	ISO 4316	3.5 ± 1
Chloride Content	EN 480-10	≤ 0.1%
Alkali Content		≤0.5%
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. *CE: CE marked in accordance with EN 934-5 (DoP STN-QUICKSCA3-0002).*

