

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 concretes. It is suitable for shotcrete applications.

It can be used with dry mix and wet mix. It increases early strength considerably without compromising on ultimate strengths.

2. Uses

StenMix® QUICK SCA-3 can be used where accelerated setting, hardening and increase in strength of concrete is required. It is mainly used for wet mix shotcrete applications where substantially reduced hydration times are required. **StenMix® QUICK SCA-3** is used for quick application of tunnel lining, ground consolidation, slopes, embankments, surface repairs with shotcrete.

It can be used in a concrete formulation with low cracking 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 amount is dependent on details of the concrete design 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, the interactions must be investigated with on-site trials.

4. Safety

Applicators and supervisors must read the Material Safety Data Sheet (SDS) carefully and follow the instructions provided. Emptied packages must be handled in compliance with relevant regulations and laws. The application must be carried out by skilled workers under supervision of experts and the applicators must use all kinds of 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 closed conditions 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 heating and homogenizing at +20 °C. The product must be stirred thoroughly before use after prolonged storage.

Alkali-Free Setting Accelerator Concrete Admixture

Highlights

- Increases the early strength of the concrete
- Shortens initial and final setting time
- Ready to use for shotcrete applications
- Compatible with other concrete admixtures
- Alkali free
- Comparable 28-day strength to unaccelerated concrete



6. Disclaimer

This document is provided for general information and reflects **Stenkim®**'s laboratory data and field experience at the time of publication. **Stenkim®** reserves the right to revise this information at any time without 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 application and for all conditions of transport, storage, handling, 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		Semitransparent - Colorless
Odor		Acidic
Chemical Composition		Aluminum sulfate solution
Density	EN ISO 2811-2	1.37g/cm ³ ± 0.02g/cm ³
pH	ISO 4316	3.5 ± 1
Chloride	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).*

