

PRODUCT DATA SHEET

SikaRapid® STE 061 Seed

(formerly Master X-Seed® STE 061)

STRENGTH-ENHANCING ADMIXTURE FOR HIGH EARLY STRENGTH CONCRETE

DESCRIPTION

SikaRapid® STE 061 Seed is a patent-pending, strength enhancing admixture that improves both early and late-age strength development in concrete, while supporting sustainable construction. SikaRapid® STE 061 Seed admixture is based on a unique technology that facilitates improved cement hydration, thus enhancing strength development.

SikaRapid® STE 061 Seed admixture will meet ASTM C494/C494M requirements for Type S, Specific Performance, admixtures. The strength-enhancing property of SikaRapid® STE 061 Seed permits a reduction in the total cementitious materials content of a given concrete mixture while maintaining compressive strength development equivalent to that of reference concrete, with associated benefits in CO₂ emissions reduction. SikaRapid® STE 061 Seed admixture is based on a Sika proprietary technology that ensures a stable suspension of synthetically-produced crystalline CSH nanoparticles. These particles act as active seeds in a concrete mixture to facilitate the growth of active crystals between cement particles. The unique technology of SikaRapid® STE 061 Seed admixture provides an unmatched improvement of the hydration process in a concrete matrix which increase early-and late-age strength development compared to a reference untreated concrete mixture.

PRODUCT INFORMATION

Packaging	200 Kg drum 200 L drum 1 000 L IBC
Shelf life	12 months from date of production if stored properly in undamaged, unopened, original sealed packaging.
Storage conditions	Store in dry conditions at temperatures between +5 °C and +35 °C. Protect from direct sunlight and frost.

USES

- Ready-mixed concrete
- Prestressed concrete
- Precast concrete
- Dry cast concrete
- Semi dry concrete
- Self-consolidating concrete (SCC)
- Fast open traffic concrete

FEATURES

- Improves cement hydration
- Increases strength development - both early (1-day) and late-age (28-day)
- Enhances workability of high-performance concrete mixtures
- Provides a strength safety factor and/or expanded performance space
- Reduces in-place concrete costs when utilized in optimized concrete mixtures
- Permits higher replacement levels of supplementary cementitious materials (SCMs)
- Permits earlier stripping and reuse of forms
- Enhances the appearance of concrete surface
- Helps reduce CO₂ emissions associated with concrete

TECHNICAL INFORMATION

Concreting guidance

The standard rules of good concreting practice, concerning production and placing, are to be followed.
Laboratory trials before concreting on site are strongly recommended when using a new mix design or producing new concrete components.
Fresh concrete must be cured properly and as early as possible.

APPLICATION INFORMATION

Recommended dosage

0.25 – 2.00 liter per 100 kg of cementitious.
Other dosages may also be used depending on the specific working conditions. Trial mixes should be made with job materials to determine the optimum dosage required for a specified job requirement.

Compatibility

SikaRapid® STE 061 Seed may be combined with the following products:

- Sika® Viscocrete®
- Sika Viscoflow®
- SikaFume®
- Sika® Stabilizer

Do not use visocrete / viscoflow series combined with sikament series.
To produce flowing and / or self-compacting concrete, special concrete mix design is required. Pre-trials are recommended and mandatory if combinations with the above products are required.
Please consult to our Technical Service Department.

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

DISPENSING

SikaRapid® STE 061 Seed is a ready-to-use admixture to be added to the concrete mix as a separate component. Optimal mixing water reduction is obtained if SikaRapid® STE 061 Seed is poured into the concrete mix right after the addition of the mixing water. Avoid adding the admixture to the dry aggregates.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

PT. Sika Indonesia Head Office and Manufacturing

Jl. Raya Cibinong-Bekasi Km.20
Limusunggal-Cileungsi
Bogor 16820-Indonesia
Tel. +62 21 8230025, Fax +62 21 8230026



Product Data Sheet
SikaRapid® STE 061 Seed
September 2024, Version 01.01
02140200000002031

SikaRapidSTE061Seed-en-ID-(09-2024)-1-1.pdf

