



PRODUCT DATA SHEET

Sika® Stabilizer-180 RCA

RETURNED CONCRETE ADMIXTURE

PRODUCT DESCRIPTION

Sika® Stabilizer-180 RCA is Sika's solution for more sustainable returned concrete processing. Sika® Stabilizer-180 RCA is a fast acting powdered admixture used to alter the properties of plastic concrete resulting in a very low strength granular material that is easy to process.

WHERE TO USE

Sika® Stabilizer-180 RCA is designed for use in the ready mix industry to facilitate the returned concrete process. Once incorporated into plastic concrete, the resulting granular concrete cures into a low strength material allowing easy processing. The processed material can be reused for various applications.

CHARACTERISTICS / ADVANTAGES

Sika® Stabilizer-180 RCA provides an easy, economical and efficient way to manage returned plastic concrete by impeding the cement hydration process resulting in a very low strength granular material. Sika® Stabilizer-180 RCA treats a wide variety of concrete mix types.

Sika® Stabilizer-180 RCA provides the following benefits:

- Improved storage constraints and space saving at the ready mix facility due to more efficient returned concrete processing,
- Reduced need for on-site concrete crushing,
- Improved overall safety due to reduced use of heavy equipment used in processing untreated returned hardened concrete.

Sika® Stabilizer-180 RCA does not contain intentionally added chlorides.

ENVIRONMENTAL INFORMATION

Generates usable material and diverts waste from landfills. Lowers carbon footprint by eliminating the need for energy intensive processing and transport.

PRODUCT INFORMATION

Packaging	Available in 0.454 kg (1.0 lb) water-soluble packs individually packaged in a protective plastic overpack, 36 packages per cardboard box and 35 boxes per pallet.
Shelf Life	Shelf life when stored in unopened original packaging in dry warehouse conditions between 5-27°C (40°F and 80°F) is one year from the date of manufacture.
Storage Conditions	Sika® Stabilizer-180 RCA must be stored in a dry environment. Damaged, exposed or unprotected packaging will absorb moisture resulting in an unusable product.
Appearance / Colour	White Powder

TECHNICAL INFORMATION

Specific Advice	<ul style="list-style-type: none">▪ Trucks that have difficulty discharging low-slump or no-slump concrete may require manual assistance in discharge, or may not be suitable for the use of Sika® Stabilizer-180 RCA.▪ Water-soluble pack must be removed from plastic overpack immediately prior to use.▪ Do not remove water-soluble pack from protective plastic overpack prior to use as moisture will diminish performance.▪ Protect Sika® Stabilizer-180 RCA from moisture and high humidity.▪ Do not open water-soluble pack.▪ Do not wet-handle Sika® Stabilizer-180 RCA as film in water-soluble pack will dissolve.▪ Avoid excess dosages of Sika® Stabilizer-180 RCA as overdose may occur.▪ Once Sika® Stabilizer-180 RCA is added to the plastic concrete, discharge prior to reloading. Concrete treated with Sika® Stabilizer-180 RCA is no longer viable for the original intended use.▪ In case of Sika® Stabilizer-180 RCA spill from broken packaging: sweep or vacuum Sika® Stabilizer-180 RCA prior to cleaning with water. Sika® Stabilizer-180 RCA will require ample water to clean.
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APPLICATION INFORMATION

Recommended Dosage	<p>The typical dosage rate of Sika® Stabilizer-180 RCA is 0.6 - 1.2 kg/m³ (1.0-2.0 lb/yd³) of concrete. For concrete with a slump less than 175mm (7") the recommended dosage is 0.6 - 0.9 kg/m³ (1.0-1.5 lb/yd³). For concrete with a slump of 175 mm or more the recommended dosage is 0.6 - 1.2 kg/m³ (1.5-2.0 lb/yd³).</p> <p>It is recommended not to exceed a dosage of 1.2 kg/m³ (2.0 lb/yd³) as the product can be overdosed and concrete may revert to a plastic state.</p>
Mixing	<p>Sika® Stabilizer-180 RCA is sold in pre-measured 0.454 kg (1.0 lb) water-soluble packs individually packaged in a protective plastic overpack. For use, remove the water-soluble pack from the protective plastic overpack. Below is a guideline for the typical use of Sika® Stabilizer-180 RCA. DO NOT add any water to the truck during the returned concrete process.</p>

- Step 1: Determine the volume and slump of returned concrete to be treated. Based on the condition and slump of the concrete the optimum dose can be determined. Certain trucks may require additional considerations. Please refer to "Specific Advice" under the Technical Information section for more details.
- Step 2: With the drum in discharge mode bring the concrete to the rear of the drum to the point of discharge. Place the determined quantity of prepared water-soluble packs on the concrete and charge the drum at full speed. Once the water-soluble pack is added to the plastic concrete it will immediately dissolve.
- Step 3: The required mixing time is variable. For concrete volumes up to 3m³ the typical mixing time is 4 minutes. Add approximately one minute for each additional cubic metre of concrete treated. An auditory change will indicate the concrete becoming stiff and granular.
- Step 4: Discharge the granular material in piles not exceeding 0.5 m³. Excess pile size will contribute to compaction resulting in difficult processing.
- Step 5: After discharge, break the piles anytime within 24 hours to prevent compaction. The longer the initial static time, the more difficult the material will be to process.
- Step 6: After 24 hours the processed material can be stored or used as desired.

BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

ENVIRONMENT, HEALTH & 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.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: www.sika.ca

Sika Canada Inc.

Head Office
601, avenue Delmar
Pointe-Claire, Quebec
H9R 4A9
1-800-933-SIKA
www.sika.ca

Other locations

Boisbriand (Quebec)
Brantford; Cambridge;
Sudbury; Toronto (Ontario)
Edmonton (Alberta)
Surrey (British Columbia)

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