

## PRODUCT DATA SHEET

# Sika® Stabilizer-323 RCT

(formerly MasterSuna® RCT 323)

Additive for treatment of returned concrete

### DESCRIPTION

Sika® Stabilizer-323 RCT is a concrete treatment additive returned in a fresh state for later beneficial use. It is an engineered polymer powder that gels fresh concrete, resulting in very rapid hardening and significantly minimizing cement hydration and strength development. Sika® Stabilizer-323 RCT comes in water-soluble bags and is added directly into the concrete mixer of the ready-mix concrete truck.

### USES

Sika® Stabilizer-323 RCT allows the concrete producer to obtain a concrete solution when the truck is returned by eliminating the need for on-site concrete crushing and landfilling of the hardened concrete in larger volumes.

### CHARACTERISTICS / ADVANTAGES

- Mono component. Low dosage for ease of use.
- Fixed dosage to treat a variety of returned concrete mixes.
- Fast action: gels fresh concrete and provides rapid hardening in two to five minutes, depending on the volume to be treated.
- Provides concrete producers with a cost-effective solution to address returned fresh concrete.
- Eliminates the need to crush concrete on site, improving safety and reducing carbon footprint.
- Creates an environmentally sustainable solution to address the problem of concrete returns by diverting a waste material into beneficial applications.
- In concrete production, considering 5 % to 15 % replacement of aggregates with the material treated with Sika® Stabilizer-323 RCT, the additive has shown minimal impact on concrete slump, air content (plastic state) and resistance to cracking. compression. However, performance depends on local materials and therefore material treated with Sika® Stabilizer-323 RCT admixture must be qualified and evaluated before use in a concrete mix.
- It is important to review and follow industry guidelines and any local/state specifications before use.

### PRODUCT INFORMATION

<b>Packaging</b>	<ul style="list-style-type: none"><li>▪ 15 water-soluble bags of 0.90 kg, packed in 19 L buckets.</li><li>▪ 36 buckets on a pallet (486 kg).</li></ul>
<b>Shelf Life</b>	12 months from the date of manufacture
<b>Storage Conditions</b>	Sika® Stabilizer-323 RCT should be stored in original containers or other airtight containers in a clean, dry place. It should be stored at an ambient temperature in the range of -5 °C to 35 °C, without the presence of humidity.

## BASIS OF PRODUCT DATA

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

## IMPORTANT CONSIDERATIONS

Sika® Stabilizer-323 RCT should be handled using personal protective equipment for non-hazardous chemicals (safety glasses and gloves). DO NOT remove the Sika® Stabilizer-323 RCT additive from its water-soluble packaging. If the powder material becomes wet, it will activate and may stick to hands, gloves, clothing, or other surfaces. If activated by water outside of concrete treatment, the powdered material will become sticky. If a water soluble bag breaks, sweep dry the powdered material, DO NOT USE WATER. Follow all precautions listed on the additive safety sheet Sika® Stabilizer-323 RCT Avoid contact with skin and eyes by using personal protective equipment for non-hazardous chemicals (safety glasses and gloves). If skin contact occurs, wash thoroughly with soap and water. If eye contact occurs, rinse thoroughly and consult a doctor.

## 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

### APPLICATION

1. Determine the volume of concrete returned in the mixer truck. Round up to the next cubic meter.
2. Load the returned concrete to the top of the concrete mixer/fin. Place the required number of Sika® Stabilizer-323 RCT admixture bags into the concrete in the concrete mixer. Add one bag of additive Sika® Stabilizer-323 RCT for each cubic meter of concrete. For example, 5 cubic meters of returned concrete require 5 bags of the additive Sika® Stabilizer-323 RCT. Run the drum at the maximum mixing speed considering at least 1.0–1.5 min/m<sup>3</sup> after adding Sika® Stabilizer-323 RCT to the concrete mix in the plastic state. Once the concrete is granulated, stop mixing.
3. Discharge the treated concrete onto the ground, positioning it from side to side to minimize the height of the concrete, preferably less than 12 inches (0.3 m). Avoid unloading concrete in large piles.
4. Drag/remove the treated pile within 2 to 4 hours with the front loader. Removing the material provides better results.
5. The next day (24 hours later), mix and turn the treated concrete piles using a front-end loader. Completely rotate the treated pile to break up any clumps of material. The treated material can be stored in piles and used as fill or base or subbase material on roads. With additional testing and qualification, a material treated with Sika® Stabilizer-323 RCT admixture can be used as a partial replacement for coarse/fine aggregates in concrete, depending on local specifications/regulations.

## 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.

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### Product Data Sheet

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