



PRODUCT DATA SHEET

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CAST-IN-PLACE CONCRETE

Sikacem® Accelerator

HARDENING ACCELERATING ADMIXTURE FOR CEMENTITIOUS CONCRETES, MORTARS, AND GROUTS

Description	Sikacem® Accelerator is a non-chloride hardening accelerator formulated to increase the early strength of concrete, mortars and grouts without affecting the initial workability. Sikacem® Accelerator meets the requirements of ASTM C494 Type C accelerating admixtures, and AASHTO M 194 Type C.
Where to Use	High Early Strength Concrete: Sikacem® Accelerator delivers excellent results in normal and hot weather conditions where very high early strengths are required. Conventional accelerators promote early stiffening of the concrete, making it unworkable within a short period of time. Sikacem® Accelerator is designed for applications where early stiffening (slump loss) is not desirable but high early strengths must be obtained within a specified time.
Advantages	<ul style="list-style-type: none"> ▪ May be used with SikaGrout®-212, SikaGrout®-212 HP, SikaGrout®-300 PT, and SikaGrout®-277 Cable grouts. ▪ May be used with SikaQuick®, Sikacrete®-08 SCC/-211 Flow PLUS, SikaTop®-111/-122/-123 PLUS, and Sika MonoTop®-623 F repair mortars ▪ Early stripping and re-use of forms ▪ Faster finishing operations on flatwork surfaces ▪ Effective with Type GU, Type MS, and Type HE cements ▪ Increases early strengths and allows faster repairs ▪ Canadian Food Inspection Agency acceptance (CFIA)

Sikacem® Accelerator delivers excellent results when high early strengths are required. Curing times are significantly reduced while concrete quality is improved.

Cold weather concreting: Sikacem® Accelerator is an effective hardening accelerator where high early strength concrete is desired and the use of calcium chloride is prohibited. See individual Product Data Sheet for specific dosages and limitations.

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- May be used with SikaQuick®, Sikacrete®-08 SCC/-211 Flow PLUS, SikaTop®-111/-122/-123 PLUS, and Sika MonoTop®-623 F repair mortars.
- Insulation and heating costs for curing time can be reduced.
- Earlier stripping and reuse of forms increases labor productivity.
- Accelerated strength gain allows earlier structural use and speeds completion time. Sikacem® Accelerator does not contain calcium chloride or any other intentionally added chlorides and will not initiate or promote the corrosion of reinforcing steel present in the concrete.

Placing concrete in freezing conditions: When used at Sika recommended dosage rates, Sikacem® Accelerator may reduce the need for cold weather concreting practices as specified in *ACI 306 - Standard Specification for Cold Weather Concreting*.

Field evaluations should be carried out when concrete is to be placed in freezing conditions to determine the minimum ambient and concrete temperatures required, and the optimum dosage for the desired setting time and strength performance. Sika strongly recommends that appropriate sound curing practices be followed to protect fresh concrete from excessive heat loss in extreme weather conditions.

Technical Data

Packaging	150 mL (5 US fl. oz) bottle / 16 bottles per case
Storage and Shelf Life	24 months, when stored in dry warehouse between +10 °C and +27 °C (50 °F and 80 °F). Sikacem® Accelerator will begin to freeze at -5 °C (23 °F). If frozen, thaw slowly and agitate thoroughly to return to its normal state before use.
Appearance	Reddish-Violet liquid
Properties at 23 °C (73 °F) and 50 % R.H.	
Density	Approx. 1.17 kg/L
<i>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.</i>	

HOW TO USE**Dosage**

To promote high early strength Sikacem® Accelerator may be used at the rate of one (1) bottle of 150 mL per bag of Sika® cementitious material.

When used to protect concrete and mortars from freezing, use two (2) bottles of 150 mL (300 mL total) per bag of Sika® cementitious material.

Note : For SikaGrout®-212 and SikaGrout®-212 HP, using 2 bottles of accelerator will diminish the expansive properties. Contact Sika Canada for further details.

Reduce water content by same volume of Sikacem® Accelerator addition rate. Do not over water mix.

Consult individual Sika Product Data Sheet for additional information on dosages and temperature limitations. Contact Sika Canada for information and assistance.

Mixing

Add correct amount of Sikacem® Accelerator at the job site. The admixture may be added directly into the mixing water liquid. Do not mix with dry cementitious material.

Concrete finishing and curing

Finish and cure Sikacem® Accelerator concrete, mortars and grouts in accordance with sound concreting practices as specified in ACI 302 and 308. For placement in sub-freezing temperatures, Sikacem® Accelerator may be used to speed finishing and curing times per *ACI 306 - Standard Specification for Cold Weather Concreting*.

Limitations

- For SikaGrout®-212 and SikaGrout®-212 HP, using 2 bottles of accelerator will diminish the expansive properties.
- Do not over water mix.
- Always consult individual Sika Product Data Sheet for additional information on dosages and temperature limitations

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent SAFETY DATA SHEET containing physical, ecological, toxicological and other safety-related data.

KEEP OUT OF REACH OF CHILDREN
FOR INDUSTRIAL USE ONLY

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, within their shelflife. 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

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