



PRODUCT DATA SHEET

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CSC Master Format™ 03 30 00
CAST-IN-PLACE CONCRETE

Sika® Albitol® Concentrate

HIGH-PERFORMANCE LATEX EMULSION BONDING AGENT AND ADMIXTURE

Description	Sika® Albitol® Concentrate is a high-performance SBR (Styrene-Butadiene Rubber) latex emulsion to be used as bonding agent for surface repairs or as modifier for toppings on hardened concrete, masonry or similar substrates.
Where to Use	<ul style="list-style-type: none"> For concrete bridges, parking decks or industrial floor overlayers. For patching repairs to concrete bridges, parking decks, industrial floors, retaining walls, tie wire holes or sidewalks. For parge coating of foundation walls. For floor leveling prior to linoleum, vinyl tiles or others.
Advantages	<ul style="list-style-type: none"> Increases the long-term compressive, tensile and flexural strengths of mortar or concrete. Increases the durability of toppings under heavy traffic conditions. Resists deterioration caused by moderate chemical attack. Protects against the effects of freeze/thaw conditions. Decreases the permeability of concrete to de-icing salts. Provides good adhesion in repair applications. Improves the slump retention characteristics of concrete. Non-toxic. Contains no chlorides. Approved by the Ministère des Transports du Québec (MTQ). Complies with ASTM C1059 for type II, non-redispersible latex bonding agents for bonding fresh to hardened concrete.

Technical Data	
Packaging	18.9 L (5 US gal.) pail, 200 L drum and 1040 L IBC
Colour	White
Shelf Life	2 years in original, unopened packaging. Store at temperatures between 5 and 32 °C (41 and 89 °F). Protect from freezing. If frozen, discard.
Recommended Mix Designs	
Bond Coat	24 kg (53 lb) cement 4 L (1.05 US gal.) Sika® Albitol® Concentrate 4 L (1.05 US gal.) water
Yield	16 L (8 - 17 m ²) [4.2 US gal. (86 - 183 ft ²)]
Mortar Topping: up to 25 mm (1 in)	25 kg (55 lb) cement 75 kg (165 lb) concrete sand 4 L (1.05 US gal.) Sika® Albitol® Concentrate 10 L (2.6 US gal.) water (to achieve required slump)
Yield	51 L (3,9 m ² at 13 mm) [1,8 ft ³ (42 ft ² at 1/2 in)]
Mortar Topping: over 25 mm (1 in)	19 kg (42 lb) cement 28 kg (62 lb) concrete sand 47 kg (103 lb) aggregate 10 mm (3/8 in) 4 L (1.05 US gal.) Sika® Albitol® Concentrate 6 L (1.6 US gal.) water (to achieve required slump)
Yield	44 L (1.76 m ² at 25 mm) [1.6 ft ³ (19 ft ² at 1 in)]
Concrete Topping	13 kg (29 lb) cement 26 kg (57 lb) concrete sand 26 kg (57 lb) coarse aggregate 14 mm (1/2 in) 4 L (1.05 US gal.) Sika® Albitol® Concentrate Water (to achieve required slump)
Yield	29 L (1.16 m ² at 25 mm) [1 ft ³ (12 ft ² at 1 in)]
<i>Note: The above mix designs are suggested starting formulations and may be modified by the specifying engineer to suit the particular application. The aggregate gradations in the above mix designs should conform to CSA A23.1-00 Specification or ASTM C33.</i>	

Properties at 23 °C (73 °F) and 50 % R.H.

Specific Gravity	1.020 kg/L (8.51 lb/US gal.)
pH	9.9
Solids Content	48 % by weight
Bond Strength ASTM C 882	20 MPa (2900 psi)
Flexural Strength ASTM C 580	6 MPa (870 psi)
Compressive Strength ASTM C 579	
Latex modified mortar	28 MPa (4062 psi)
Latex modified concrete	32 MPa (4643 psi)
VOC Content	0 g/L
Chemical Resistance	Consult Sika Canada

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.

HOW TO USE

Surface Preparation	Surface must be sound, clean and free of oil, dust and debris. Remove all loose, disintegrated, unsound or contaminated concrete. Thoroughly soak dry substrate surface prior to application, but eliminate any standing water.
Mixing	With mixer running, add materials in the following order: Water and Sika® Albitol® Concentrate solution, aggregate, cement. Add more latex solution if required.
Application	Place bonding grout in area to be resurfaced; brush in with stiff-bristled broom or scrub brush. Ensure all surface and edges are coated. Before scrub coat dries, place and strike off additional mortar or concrete. Immediately trowel finish. Do not get too far ahead of finishers. Avoid over-finishing.
Curing	As soon as finish will not be damaged (within 15 minutes after finishing), cure with damp burlap or white-pigmented polyethylene film. Continue cure for 24 hours. Under normal temperature conditions, area may be opened to foot traffic after 24 hours; to light traffic in 2 - 4 days, and to heavy traffic after 3 - 5 days.
Clean Up	Uncured material can be removed with water. Hardened material can only be removed mechanically.
Limitations	<ul style="list-style-type: none"> ▪ Latex-modified cement mixtures are more difficult to finish than plain mixtures. Avoid over-finishing. Do not use air-entraining agents with Sika® Albitol® Concentrate. ▪ Sika® Albitol® Concentrate freezes at temperatures below 4 °C (39 °F). If frozen, discard. ▪ Do not store at temperatures over 30 °C (86 °F) for prolonged periods. ▪ Use only potable water.
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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