



PRODUCT DATA SHEET

Sikacrete[®]-08 SCC

Self-compacting concrete (SCC) based on Sika[®] ViscoCrete[®] technology



PRODUCT DESCRIPTION

Sikacrete[®]-08 SCC is a ready-to-use, highly flowable, self-compacting, cement-based concrete, usable for concrete thicknesses between 25 mm and 450 mm (1 in and 18 in).

WHERE TO USE

- Partial or full depth repairs
- On grade, above, and below grade on concrete
- On horizontal, vertical and overhead surfaces
- As a structural repair material for parking facilities, industrial facilities, walkways, bridges, tunnels, dams and balconies
- Filler for voids and cavities

CHARACTERISTICS / ADVANTAGES

- Simple-to-use labour-saving system
- May be pumped or poured
- High bond strength
- Compatible with coefficient of thermal expansion of concrete
- Increased resistance to de-icing salts

PRODUCT INFORMATION

Packaging	25 kg (55 lb) bag
Appearance / Colour	Concrete grey
Shelf Life	12 months in original, unopened packaging
Storage Conditions	Store dry at temperatures between 4 °C and 35 °C (40 °F and 95 °F), ensuring that product is not exposed to rain, condensation or high humidity.

- Good freeze/thaw resistance
- Easily applied to clean, sound substrate
- Not a vapour barrier
- Formulated with inert, non-reactive aggregates to eliminate potential Alkali-Aggregate Reactivity (AAR)
- Aesthetic, high quality surface finish
- Contains an integrated corrosion inhibitor based on a proven technology
- Can be used for underwater concreting (See Application Section)

APPROVALS / CERTIFICATES

- Ministère des Transports et de la Mobilité Durable du Québec (MTMD) approved
- Product recognized by the British Columbia Ministry of Transportation (BC MoT)
- Meets Alberta Transportation (AT B391) specification for patching materials

SUSTAINABILITY INFORMATION

Resources and circular economy	Environmental Product Declaration: Type III - Product Specific (third-party verified) - CAN/CSA-ISO 14025:2006 & core standard ISO 21930:2017
Air quality and emissions	Inherently non-emitting material
Green building	LEED® projects: Contact Sika Canada for product contribution details and support

TECHNICAL INFORMATION

Concrete Mixing Time 2 - 3 min

Compressive Strength

Compressive Strength

24 hours	11 MPa (1595 psi)	(ASTM C39)
3 days	39 MPa (5656 psi)	
28 days	55 MPa (7977 psi)	

Compressive Strength (ASTM C39) - Tested with Sikacem® Accelerator

Temperature	Dosage	24 hours	2 days	3 days	28 days
-5 °C (23 °F)	1 bottle (150 mL)	2 MPa (290 psi)	3 MPa (435 psi)	7 MPa (1015 psi)	35 MPa (5076 psi)
-5 °C (23 °F)	2 bottles (300 mL)	4 MPa (580 psi)	8 MPa (1160 psi)	10 MPa (1450 psi)	40 MPa (5800 psi)
0 °C (32 °F)	1 bottle (150 mL)	4 MPa (580 psi)	6 MPa (870 psi)	9 MPa (1305 psi)	40 MPa (5800 psi)
0 °C (32 °F)	2 bottles (300 mL)	7 MPa (1015 psi)	10 MPa (1450 psi)	13 MPa (1885 psi)	44 MPa (6380 psi)
10 °C (50 °F)	1 bottle (150 mL)	10 MPa (1450 psi)	13 MPa (1885 psi)	20 MPa (2900 psi)	44 MPa (6380 psi)
10 °C (50 °F)	2 bottles (300 mL)	14 MPa (2030 psi)	15 MPa (2175 psi)	22 MPa (3190 psi)	45 MPa (6527 psi)
23 °C (73 °F)	1 bottle (150 mL)	16 MPa (2320 psi)	23 MPa (3335 psi)	-	-
23 °C (73 °F)	2 bottles (300 mL)	18 MPa (2610 psi)	25 MPa (3625 psi)	-	-

*All moulds, mixing tools and powder components were pre-conditioned to the test temperatures. Prepared test specimens were cast and then cured at the indicated test temperatures until the time of testing. Water + Sikacem® Accelerator/Sikacrete®-08 SCC = 2.6 L (0.69 US gal) of liquid per 25 kg (55 lb) bag of Sikacrete®-08 SCC.

Shear Strength

Slant shear

14 MPa (2030 psi) (ASTM C882)
Failure in mold

Shrinkage

< 0.065 % (ASTM C157)

Pull-Off Strength

2.5 MPa (362 psi) (CSA A23.2-6B)
Substrate 35 MPa concrete 7 days

Chloride Ion Diffusion Resistance

28 days	< 900 Coulombs	(ASTM C1202)
56 days	< 300 Coulombs	

Freeze thaw resistance

300 cycles 98 % (ASTM C666)

APPLICATION INFORMATION

Mixing Ratio	2.5 to 2.7 L (0.66 to 0.71 US gal) of water per 25 kg (55 lb) bag, depending on the desired flow.	
Yield	Approx. 13 L (0.46 ft ³) of fresh concrete per bag	
Pot Life	25 - 30 minutes	
Flowability	600 - 700 mm (24 - 28 in)	(ASTM C1611)
Porosity Test	Air content 7 ± 2 %	(ASTM C457)
Application condition	For best results, condition the material at temperatures between 18 °C and 24 °C (65 °F and 75 °F) before use.	

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.

Properties tested at 23 °C (73 °F) and 50 % R.H. unless stated otherwise.

LIMITATIONS

- **Important:** protect stored material from exposure to rain, condensation and high humidity as moisture may penetrate packaging, causing lumps.
- Condition product to 18 °C to 24 °C (65 °F to 75 °F) prior to mixing and installation. Lower temperatures may result in slower strength development and longer cure times.
- Ensure that the specified application thicknesses for the material are observed: minimum 25 mm (1 in) / maximum: 450 mm (18 in).
- Minimum ambient and surface temperatures: 7 °C (45 °F) and rising at time of application unless using with Sikacem® Accelerator (refer to Technical Data section).
- Do not overwater mix.
- Avoid using both single or duo type mixing drills capable of mixing speeds higher than 500 rpm (contact Sika Canada for further information).

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.

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

Concrete: Remove all deteriorated concrete, dirt, oil, grease, and all bond-inhibiting materials from surface. Be sure repair area is not less than 25 mm (1 in) in depth. Preparation work should be done by high pressure water blast, or other appropriate mechanical means to obtain an exposed aggregate surface with a minimum surface profile of ± 3 mm (1/8 in) (CSP 6 - 10, as per ICRI specifications). Saturate surface with clean water. Substrate should be saturated, surface dry (SSD) with no standing water during application.

Reinforcing Steel: Steel reinforcement should be thoroughly prepared by mechanical cleaning to remove all traces of rust. Where corrosion has occurred due to the presence of chlorides, the steel should be high-pressure washed with clean water after mechanical cleaning. For priming of reinforcing steel use SikaTop® Armatec-110 EpoCem® (Consult Product Data Sheet).

MIXING

Place 2.5 L (0.66 US gal) of water in mixing container. Add Sikacrete®-08 SCC while continuing to mix. Add additional water up to 0.2 L (0.05 US gal) to obtain desired consistency. Mix to a uniform consistency, maximum three (3) minutes. Mechanically mix with a low-speed, D-handle style drill (400 - 500 rpm) fitted with either a *jiffy*, ribbon-mud mixer or a mud mixer type paddle. For larger volume mixing, utilize a mortar or concrete mixer with paddles for best results.

APPLICATION

Form and pour or pump applications: At time of application, surface should be saturated surface dry (SSD) with no glistening water. Ensure good intimate contact with the substrate is achieved. Pump with a variable pressure pump. Continue pumping until a 20 KPa to 35 KPa (3 psi to 5 psi) increase in normal line pressure is evident then **stop** pumping. Form should not deflect. Vent to be capped when steady flow is evident, and forms stripped when appropriate.

Underwater applications (using the minimum permissible water for mixing): To place the concrete underwater with minimum of loss, inject the concrete through tremie of 50 mm (2 in) in diameter keeping the discharge end embedded into the previously placed concrete. The tremie is then raised as the injection proceeds, taking care that the extremity always remains sufficiently embedded in the concrete to prevent any material washout.

CURING TREATMENT

As per ACI 308 recommendations for cement concrete, curing is required. To achieve performance consistent with Technical Data, curing must be provided by recognized curing methods, such as wet burlap covered with white polyethylene film or approved water-based curing compound, such as Sika® Florseal WB-18 & -25. Alternatively, the use of Sika® Ultracure DOT™ or NCF™ wet curing blankets is strongly recommended. Curing must commence immediately after placing and finishing. Protect freshly applied mortar from direct sunlight, wind, rain and frost.

CLEAN UP

Clean all tools and application equipment with water immediately after use. Hardened / cured material can only be removed mechanically.

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

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Product Data Sheet

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