



PRODUCT DATA SHEET

Edition 12.2017/v1
CSC Master Format™ 09 97 23
CONCRETE AND MASONRY COATINGS

Sikagard® Color A-50 Lo-VOC

ADVANCED GENERATION, VOC COMPLIANT, PIGMENTED ACRYLIC SEALER FOR CONCRETE AND MASONRY STRUCTURES

Description	Sikagard® Color A-50 Lo-VOC is a state-of-the-art, pigmented and acrylic copolymer (methacrylate resin) based sealer. Using proven technology, the coating has been formulated to be VOC compliant while providing protection and decoration to both concrete and masonry.
Where to Use	<ul style="list-style-type: none"> ▪ Sikagard® Color A-50 Lo-VOC effectively seals concrete, brick and block buildings or structures against the ingress of water and carbon dioxide. ▪ It also offers superior chloride screening capabilities, ideally suited to protecting all but trafficked surfaces in salt exposed conditions. ▪ It is extremely resistant to the effects of weathering and can therefore be used with confidence in exposed locations. ▪ Sikagard® Color A-50 Lo-VOC provides durable protection and decoration to virtually any concrete and masonry structures requiring uniform colour and easy-to-clean properties.
Advantages	<ul style="list-style-type: none"> ▪ VOC compliant; satisfying environmental regulations. ▪ Supplied ready to use: no additions or dilution required ▪ Easy to apply, typically self priming and therefore economical. ▪ Excellent weathering properties; resisting ultra violet light degradation, wind erosion and the effects of exposure. ▪ Extremely resistant to the ingress of water, carbon dioxide and atmospheric pollutants. ▪ Superior protection against chloride ions providing corrosion management of reinforced structures. ▪ Unaffected by weak solvents, such as mineral spirits and naphthas. ▪ Resists weak alkalis and weak mineral acids. ▪ Vapour permeable, allowing buildings to 'breathe'. ▪ Excellent decorative properties, including resistance to fading, chipping and flaking. ▪ Product recognized by the British Columbia Ministry of Transportation(BC MoT).

Technical Data

Packaging	18.9 L (5 US gal.) pail
Colour	Dover Sky, Limestone, Precast, Concrete Grey, Banff Beige, White, Capitol Tan, Sierra Beige, Historic Tan and Special colours (on request) <i>Refer to current price list for availability.</i>
Yield	Smooth dense concrete: 8.2 m ² /L (333 ft ² /US gal.) per coat at 4.9 mils w.ft. for a final, applied coating thickness of 3.9 mils d.ft. Gunite surfaces, porous block or brick: 3.4 - 6.2 m ² /L (138 - 252 ft ² /US gal.) per coat Typical coating system is two coats. Note: Where aesthetics are of paramount importance or a light coating is being applied onto a dark, uneven or porous substrate, the above coverages may have to be adjusted or an additional coat allowed for. Consumption is dependent upon porosity of substrate and allowance should also be made for surface profile, variation in applied film thickness, loss and waste. Test sections are recommended (see Application)
Shelf Life	2 years in original, unopened packaging. Store dry at 5 to 32 °C (41 to 89 °F). Protect from freezing. If frozen, discard in appropriate manner (consult Sika Canada).
Service Temperature	-50 to 80 °C (-58 to 176 °F)
Application Temperature (ambient & substrate)	Minimum 0 °C (32 °F)
Drying Times	
0 °C (32 °F)	Approx. 60 min
25 °C (77 °F)	Approx. 30 min
Properties at 23 °C (73 °F) and 50 % R.H.	
Solids Content	50 % +/- 2 by weight, 40% +/- 2 by volume (dependent upon colours)
Density	1.1 kg/L +/- 0.1 (9.18 lb/US gal. approx.)
Viscosity	1200 cps
Gloss Value ASTM D523	Level 1: Traditional Matte (Flat)
VOC Content	Complies with Canadian Environment Protection Act 1999 (Volatile Organic Compound VOC Concentration Limits for Architectural Coatings Regulations)

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

All surfaces to be coated must be clean, dry, sound and frost free with dirt, dust, curing compound residues, loose paint, surface laitance, oil, grease, rust or other contaminants removed.

Existing coatings must be removed, unless extensive testing confirms compatibility of materials and it is accepted that the existing paint will determine overall performance.

An open textured, sandpaper-like and uniform surface (ICRI-CSP 1 -2) is best for the final appearance. Where necessary, surfaces should be prepared mechanically by light sand blasting or high pressure water-jetting (allowing adequate drying time if using water).

Bug holes, cracks or irregularities in the substrate should be filled and levelled with SikaTop®, SikaRepair® or Sika MonoTop® mortars as appropriate. Consult Sika Canada Technical Services for recommendations.

Product Preparation

Stir the material thoroughly to disperse pigments and flattening agents and ensure uniformity using a slow-speed (300 - 450 rpm) drill and Sika or Jiffy-style paddle.

Thinning of the product is not typically required, however in situations where it does prove necessary, i.e. cold weather, consult Sika Canada Technical Services for guidance as to the thinner to be used and the maximum quantity allowable to maintain product performance and meet VOC regulations.

Stir until a uniform consistency and colour have been achieved (3 - 5 minutes). The material must be stirred frequently during use.

Application

Any areas of glass or other such surfaces should be masked to protect against contact with the coating.

Sikagard® Color A-50 Lo-VOC can be applied by brush, roller or airless spray.

When applied by roller, use a lamb's wool roller, with nap to suit surface profile and work in one direction. To achieve the total required dry film thickness, two uniform coats should be allowed for.

For spray applications, contact spray equipment specialists to determine suitable equipment and for application advice. When spraying, apply in two passes, perpendicular to each other, with sufficient time between passes for the solvent to 'flash' off (evaporate).

Where aesthetics are of paramount importance, and/or on porous, uneven or dark substrates, coverage rates may have to be adjusted or a further coat may be necessary.

Allow previous coats to become dry to the touch (tack-free) prior to overcoating.

At lower temperatures and/or high humidity, waiting time will be prolonged. At higher temperatures, work carefully to maintain a 'wet' edge.

Note: As with all coatings, jobsite trials are recommended to establish suitability of application equipment and technique, acceptable workmanship, consumption and coverage rates, opacity and finish.

Clean Up

Uncured material can be removed using Sika® Epoxy Cleaner. Cured product can only be removed mechanically. Wash soiled hands and skin thoroughly in hot soapy water or use Sika® Hand Cleaner towels.

Limitations

- Sikagard® Color A-50 Lo-VOC is moisture sensitive and must be applied on a dry substrate.
- Minimum age of concrete prior to the application is 14 days, depending on curing and drying conditions (moisture content must be below 4 %).
- Allow sufficient time for the substrate to dry after water jetting preparation or rain before coating.
- Not designed for surfaces exposed to vehicle or pedestrian traffic.
- Do not use over moving cracks, either seal cracks with Sikaflex® or apply Sikagard®-550 W Elastic.
- Minimum age of SikaTop®, SikaRepair® or Sika MonoTop® mortars is 3 days prior to the application of Sikagard® Color A-50 Lo-VOC (moisture content must be below 4 %).
- When over coating existing paints, compatibility and adhesion testing is essential.
- During application, regular monitoring of wet film thickness and material consumption is advised to ensure that the correct thickness is achieved.
- Ensure previous coats are touch dry/tack-free before overcoating to prevent formation of bubbles and blisters, particularly in warm weather.
- The finished coating would be attacked by aromatic solvents and ketones if exposed to such.
- Sikagard® Color A-50 Lo-VOC may dull due to slight chalking, depending upon exposure.

**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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