



## PRODUCT DATA SHEET

# Sikagard®-1315 KNS

(formerly MasterKure® CC 1315 WB)

HIGH-SOLIDS, WATER-BASED, MODIFIED ACRYLIC CURING, SEALING AND DUSTPROOFING COMPOUND

### PRODUCT DESCRIPTION

Sikagard®-1315 KNS product is a transparent water-based blend of acrylic polymers used to cure, seal, and dustproof freshly placed and finished concrete floors. It complies with ASTM C 1315, Type I, Class B.

### USES

- Interior and exterior
- Horizontal and vertical
- Odor-sensitive locations

#### Substrates

- Concrete
- Decorative Concrete

### CHARACTERISTICS / ADVANTAGES

- Ensures high curing efficiency allowing concrete to attain its full strength potential
- Reduces surface absorption and dusting of concrete for easier cleaning and maintenance
- Retains moisture in concrete to minimize shrinkage cracking
- Solvent-free for reduced odor
- Water-based for reduced VOC content
- VOC compliant for EPA and most regional jurisdictions
- Compatible with most carpet and tile adhesives
- Semi-gloss appearance so surfaces look newer and brighter

### APPROVALS / STANDARDS

- Sikagard®-1315 KNS is recommended for use on Class 1, 2, 3, and 4 concrete floors as classified in Table 2.1 ACI 302.1R
- ASTM C 309, Type I, Class A or B
- ASTM C 1315, Type I, Class B
- Corps of Engineers CRD-C304, Type I, Class A or B
- AASHTO M-148

### PRODUCT INFORMATION

<b>Chemical Base</b>	Sikagard®-1315 KNS is an acrylic polymer in a co-solvent emulsion.
<b>Packaging</b>	<ul style="list-style-type: none"> <li>▪ 2 gallon (7.57 L) pails</li> <li>▪ 4 gallon (15.1 L) pails</li> <li>▪ 5 gallon (18.93 L) pails</li> <li>▪ 55 gallon (208 L) drums</li> </ul>
<b>Shelf Life</b>	15 months when properly stored

<b>Storage Conditions</b>	Store in unopened containers in a clean, dry area between 40 and 85 °F (4 and 29 °C). Keep from freezing.	
<b>Color</b>	Milky white, dries clear	
<b>Flash Point</b>	> 200 °F (> 93 °C)	(ASTM D 56)
<b>Solid content by mass</b>	26%	(ASTM C 1644)

## TECHNICAL INFORMATION

<b>Tensile Adhesion Strength</b>	<b>Adhesion of tile cement</b> > 165 psi	(ASTM C 1315)
<b>Water retention</b>	Sikagard®-1315 KNS applied at 300 ft <sup>2</sup> / gal Test requirement	0.36 kg/m <sup>2</sup> < 0.4 (ASTM C 156)
<b>Chemical Resistance</b>	<b>Acid and Alkali resistance</b> No effect was observed at 1 and 16 hours	(ASTM D 1308)
<b>UV Exposure</b>	Membrane lighter than Gardner color 3	(ASTM G 53)

## APPLICATION INFORMATION

<b>Coverage</b>	CURING ONLY: 200–400 ft <sup>2</sup> /gallon (4.9–9.8 m <sup>2</sup> /L) SECOND COAT (dust proofing and sealing): 400–600 ft <sup>2</sup> /gallon (9.8–14.7 m <sup>2</sup> /L) RECOATING (dust proofing and sealing): 200–300 ft <sup>2</sup> /gallon (4.9–7.4 m <sup>2</sup> /L) Coverage varies with the application method, texture, and porosity of the surface.	
<b>Drying Time</b>	<4 hrs	(ASTM C 1315)
	Times are based upon temperatures of 65 to 85 °F (18 to 29 °C) and 50% relative humidity. Light foot traffic or between coats: 4 hours Normal traffic: overnight Maximum hardness: 7 days Material will take longer to dry at either higher humidity or lower temperatures.	

## BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

## ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

## APPLICATION INSTRUCTIONS

- Sikagard®-1315 KNS may settle and must be stirred thoroughly before and during application.
- For curing only, one coat may be sufficient; 2 coats will give the best results. To seal and dustproof, 2 coats are required.
- Not recommended for use in colored dry-shake applications
- Keep from freezing.
- Do not apply when the concrete surface or ambient temperature is below 40 °F (4 °C).
- Do not apply when the surface temperature is above 120 °F (49 °C).
- Not recommended as a release agent.
- Do not apply to surfaces of joints to be caulked with sealants. Mask joints to avoid sealant adhesion problems.
- Can be applied to plain and colored concrete, but mottling or discoloration may occur.
- May highlight features and imperfections of the concrete surface.
- Sikagard®-1315 KNS must be fully dry before exposure to water or it may whiten.
- Although Sikagard®-1315 KNS is compatible with a variety of carpet, vinyl tile, and floor-covering adhesives, always conduct a test application before

- applying.
- Not intended for surfaces to receive concrete overlays or additional toppings, coatings, sealers, or ceramic tile (without proper surface preparation).
  - Sikagard®-1315 KNS is considered a light-duty floor sealer; it may rubber burn when subjected to a forklift or other wheeled traffic.
  - If Sikagard®-1315 KNS will be applied in or near areas containing foodstuffs, they must be removed before application.
  - Extended exposure to moisture may result in a temporary opaque condition that clears upon drying.
  - Only mechanical methods of removal are recommended.
  - The small amount of solvent vapors released by Sikagard®-1315 KNS may be objectionable to people unaccustomed to the odor; do not apply Sikagard®-1315 KNS in or around buildings occupied by non-construction personnel without consulting building management.
  - For professional use only; not for sale to or use by the general public.
  - Make certain the most current versions of the product data sheet and SDS are being used.
  - Proper application is the responsibility of the user. Field visits by Sika personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

#### **SUBSTRATE PREPARATION**

1. Freshly placed concrete must be properly finished. The surface is application-ready when it is damp but not wet and when it cannot be marred by foot traffic.
2. Existing concrete surfaces should be thoroughly repaired and cleaned before application. The surface must be clean, dry, and free of dust, oil, grease, sealers, and all other surface contaminants that might inhibit the proper bond of material.

#### **APPLICATION**

1. Thoroughly mix the material in the original container before applying.
2. Apply a continuous, uniform film by solvent-resistant low-pressure spray only, a short-nap roller, or lamb's wool applicator.
3. For curing, one coat may be sufficient. However, two coats may be required in hot and windy conditions. Apply evenly and uniformly as soon as possible after final finishing.
4. To seal and dustproof, two coats are required. Apply the second coat when all trades have completed their work and the site is ready for occupancy.
5. Do not over-apply or soak concrete surfaces with the curing compound. Do not allow the curing compound to pool on the surface. Over-application can result in alligatoring and mud cracking, whereby a film forms on the substrate before the material dries properly. Over-application may also cause opacity, as elements of the curing compound become trapped in the subsurface and cannot escape.

#### **CLEANING OF TOOLS**

Clean tools immediately after use with soap and warm water.

## LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at [usa.sika.com](http://usa.sika.com) or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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### Product Data Sheet

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