

PRODUCT DATA SHEET

Sikagard®-250 KNS

(formerly MKure CC 250 SB)

LOW-VISCOSITY, TRANSPARENT, SOLVENT-BASED, MODIFIED ACRYLIC CURING, SEALING AND DUSTPROOFING COMPOUND

PRODUCT DESCRIPTION

Sikagard®-250 KNS SB is a transparent, low-viscosity, 25% solids, VOC-compliant, solvent-based modified acrylic curing, sealing, and dustproofing compound designed for easier application at cool temperatures. It complies with ASTM C 1315, Type I, Class A. Sikagard®-250 KNS XS is an exempt solvent version.

USES

Applications

- Interior and exterior
- Horizontal and vertical

Substrates

- Concrete
- Decorative concrete
- Exposed aggregate
- Brick

CHARACTERISTICS / ADVANTAGES

- Solvent-based for excellent blush/whitening resistance
- 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
- VOC compliant for EPA
- Compatible with most carpet and tile adhesives
- Semi-gloss appearance so surfaces look newer and brighter
- Good UV resistance for retention of transparency
- Low viscosity to provide easier application at cool

temperatures

- Abrasion-resistant to withstand foot traffic and provide extended wear
- Sprayable with suitable pump-up canister sprayer

APPROVALS / STANDARDS

- Sikagard®-250 KNS is recommended for use on Class 1, 2, 3, and 4 concrete floors as classified in Table 1.1, ACI Standard 302
- ASTM C 309, Type 1, Class A
- ASTM C 1315, Type I, Class A
- Corps of Engineers CRD-C304,
- Type I, Class A or B AASHTO M-148
- USDA compliant for use in meat and poultry areas, when fully cured

PRODUCT INFORMATION

Chemical Base	Sikagard®-250 KNS SB is an acrylic polymer resin in a solvent carrier. Sikagard®-250 KNS XS is an acrylic polymer resin in an exempt solvent carrier.	
Packaging	5-gallon (18.9 L) pails 55-gallon (208 L) drums	
Color	Amber; dries clear	
Shelf Life	18 months when properly stored	
Storage Conditions	Store in unopened containers in a clean, dry area between 35° and 85° F (2° and 29° C). Keep from freezing.	
Flash Point	> 109° F (> 42° C)	(ASTM D 56)
Solid content by mass	25%	(ASTM C 1644)

TECHNICAL INFORMATION

Resistance to Alkalinity	No effect observed at 1 and 16 hours		(ASTM D 1308)
UV Exposure	Membrane lighter than Gardner Color 3		(ASTM G 53)
Adhesion in peel	Adhesion of Tile Cement > 165 psi		(ASTM C 1315)
Water retention	Sikagard®-250 KNS	0.38 kg/m ²	(ASTM C 1315)
	Test Requirement	≤ 0.4 kg/m ²	
	applied at 300 ft ² /gal		

APPLICATION INFORMATION

Coverage	Curing only: 200–400 ft ² /gallon (4.9–9.8 m ² /L) Second coat (dustproofing and sealing): 400–600 ft ² /gallon (9.8–14.7 m ² /L) Recoating, dustproofing and sealing: 200–300 ft ² /gallon (4.9–7.4 m ² /L) Coverage varies with application method, texture and porosity of surface.		
Drying Time	< 4 hrs (ASTM C 1315) ▪ Times are based upon temperatures 65 to 85° F (18 to 29° C) at 50% relative humidity. ▪ Light foot traffic or between coats: 3 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.

LIMITATIONS

- Sikagard®-250 KNS may settle and must be stirred

thoroughly before and during application.

- Do not thin.
- Keep away from heat and open flame.
- Application is not recommended when the surface temperature exceeds 120° F (49° C).
- If Sikagard®-250 KNS is to be applied in or near areas containing foodstuffs, they must be removed before application; do not return foodstuffs until Sikagard®-250 KNS has fully dried and all solvent vapors have dissipated.
- Heating Ventilation Air Conditioning (HVAC) units may

draw solvent vapors into occupied building interiors. Solvent vapors can be irritating. Do not apply Sikagard®-250 KNS in or around buildings occupied by non-construction personnel without consulting building management and taking appropriate precautions. Use only with adequate ventilation and with a minimum of six air changes per hour.

- Do not apply to surfaces of joints to be caulked with sealants. Mask joints to avoid sealant-adhesion problems.
- Do not use on surfaces that are to receive concrete overlays or additional toppings or coatings.
- Not recommended as a release agent or where other sealers or treatments are to be later applied.
- Avoid excess moisture until the material is fully cured.
- Although Sikagard®-250 KNS is compatible with a variety of tile, carpet, and floor-covering adhesives, a test application is always recommended.
- Can be applied to natural or colored concrete, but mottling or discoloration may occur.
- May highlight features and imperfections of the concrete surface.
- Sikagard®-250 KNS is considered a light-duty sealer; may rubber burn when subjected to a forklift or other wheeled traffic.
- Mechanical methods are recommended for removing Sikagard®-250 KNS.
- 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.

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

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, 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 overapply or soak concrete surfaces with the curing compound. Do not allow the curing compound to pool on the surface.
6. 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 and equipment with SikaSwell®-990 immediately after use and while Sikagard®-250 KNS is still wet.

LEGAL DISCLAIMER

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

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Product Data Sheet

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