BUILDING TRUST

PRODUCT DATA SHEET

Sikagard®-200 HD WB

(formerly MasterKure® CC 200WB)

HARDENING, SEALING AND DUSTPROOFING COMPOUND

PRODUCT DESCRIPTION

Sikagard®-200 HD WB is a water-soluble, inorganic, silicate-based curing, hardening, sealing and dustproofing compound. Use it for freshly placed and finished concrete and in the renovation of aged concrete.

USES

- Interior and exterior
- Above or below grade
- Concrete floors and pavements
- Curing of fresh concrete
- Renovation of aged concrete

CHARACTERISTICS / ADVANTAGES

- Protects floors during construction
- Easy to apply and quick drying for quick turnaround
- Water-based; no VOCs and easy to clean up
- Aids curing of concrete; minimizes shrinkage cracking and improves strength development
- Hardens concrete to withstand moderately heavy-duty traffic
- Improved abrasion resistance to extend wearability

APPROVALS / STANDARDS

USDA compliant for use in meat and poultry areas

PRODUCT INFORMATION

Chemical Base	Sikagard®-200 HD WB is an alkalisilicate hardener.
Packaging	5-gallon (18.9 L) pails 55-gallon (208 L) drums
Shelf Life	15 months when properly stored.
Storage Conditions	Store in unopened containers in a cool, dry area between 35°F and 85°F (4°C and 29°C). Keep from freezing.
Color	Clear

TECHNICAL INFORMATION

Abrasion Resistance

Untreated sample	8 g loss 1,000 g load, 1,000 revolutions(100%)	(Taber Abraser CS-17 Wheel)
Sikagard®-200 HD WB treated*	6 g loss 1,000 g load, 1,000 revolutions (78%)	

20% increase in abrasion resistance over untreated samples
*Application to fresh mortar. Abrasion resistance measured at 7 days, 70° F (23° C) and 50% relative humidity.

Water retention

Untreated sample	90 g loss	(ASTM C156)
Sikagard®-200 HD WB treated*	63 g loss	

30% improvement in moisture retention
*Application to fresh mortar. Abrasion resistance measured at 7 days, 70° F (23° C) and 50% relative humidity.

Chemical Resistance

Alkali-silicate hardeners can be used to increase resistance to chemicals including (but not limited to) the following:

Acetic acid, <10%	Cresol	Paraffin
Aluminum sulfate	Cumol	Peanut oil
Ammonium carbonate	Ethyl alcohol	Phenanthrene
Ammonium chloride	Ferric chloride	Phenol, 25%
Ammonium hydroxide	Ferric nitrate	Phosphoric acid, 80%
Ammonium nitrate	Ferric sulfate	Poppy seed oil
Ammonium sulfate	Fish oil	Potassium aluminum sulfate
Anthracene	Formaldehyde, 37%	Potassium carbonate
Arsenious acid	Formic acid, 90%	Potassium chloride
Barium hydroxide	Fruit juices	Potassium dichromate
Beef fat	Glucose	Potassium hydroxide, 15%
Benzene	Glycerine	Potassium nitrate
Borax	Honey	Potassium persulfate
Boric acid	Humic acid	Potassium sulfate
Buttermilk	Hydrochloric acid, 10%	Rapeseed oil
Calcium chloride	Hydrogen sulfide	Rosin
Calcium hydroxide	Iodine	Sea water
Calcium nitrate	Lactic acid, 25%	Sodium bicarbonate
Calcium sulfate	Lead nitrate	Sodium bromide
Carbazole	Lead-refining solutions, 10%	Sodium carbonate
Carbonic acid	Lignite oils	Sodium chloride
Castor oil	Linseed oil	Sodium dichromate
China wood oil	Machine oil	Sodium hydroxide, 10%
Chromic acid, 10%	Magnesium chloride	Sodium nitrate
Chrysen	Magnesium nitrate	Sodium nitrite
Cider	Manure	Sodium sulfate
Coal	Methyl alcohol	Sodium sulfite
Coal-tar oils	Mine water, waste	Sodium thiosulfate
Cobalt sulfate	Mineral spirits	Soybean oil
Coconut oil	Molasses	Sugar
Copper chloride	Mustard oil	Sulfur dioxide
Copper sulfate	Nickel sulfate	Toluene
Corn syrup	Nitric acid, 40%	Zinc chloride
Cottonseed oil	Oleic acid, 100%	Zinc nitrate
Creosote	Olive oil	Zinc sulfate

APPLICATION INFORMATION

Coverage	150–200 ft² /gal (3.68 – 4.9 m² /L) Coverage may vary with application method, surface conditions, and porosity
Drying Time	1. Sikagard®-200 HD WB penetrates in approximately 30-60 minutes after application, depending on temperature, humidity, and job conditions. Each application must penetrate thoroughly before proceeding with the next. 2. A floor treated with Sikagard®-200 HD WB must completely dry before accepting any traffic. Allow 24 hours before subjecting to heavy traffic.

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

For Best Performance

- On exterior applications, rapid drying conditions may greatly reduce the effectiveness of Sikagard®-200 HD WB as a curing aid. It is the responsibility of the user to adjust the curing rate to properly regulate the hydration of the concrete.
- If Sikagard®-200 HD WB freezes, warm and restir to uniformity. If separation is persistent, discard product.
- Install joint sealants before application of Sikagard®-200 HD WB; if not possible, test first for adhesion.
- For subsequent coating applications, perform proper surface preparation and consult the coatings manufacturer for more instructions.
- Spray application will yield best results.
- Dry buffing 24 hours after application will improve sheen of finished floor.
- Application method and concrete porosity will affect final appearance of Sikagard®-200 HD WB. White residue signifies too strong a mix or the surface reaching maximum hardness. Applications should be stopped and the surface flushed with clean hot water, scrubbed with a stiff-bristled broom and allowed to dry. If any applications remain, dilution of the product may be required to prevent whitening.
- Applications to concrete containing pozzolanic additives will require additional Sikagard®-200 HD WB.
- Do not allow Sikagard®-200 HD WB to come in contact with any glass, fabric, metal, or painted surfaces. Immediately wipe contaminated surfaces with a clean water-saturated cloth, then wipe dry with a second clean cloth.
- Allow at least 7 days after application before using adhesives over Sikagard®-200 HD WB.
- One application of Sikagard®-200 HD WB is normally sufficient. Repeat applications will ensure complete densification of concrete surface.
- For professional use only; not for sale to or use by the general public.
- Make certain the most current versions of product data sheet and SDS are being used; visit usa.sika.com to verify the most current versions.
- 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 job site.

SUBSTRATE PREPARATION

New Concrete

1. Freshly finished concrete surfaces require no surface preparation if Sikagard®-200 HD WB is applied immediately after the final finishing operation in place of a resin or acrylic curing compound.
2. On areas where forms have been recently removed, all form oil or breaking compound residue must be removed prior to application.

Existing Concrete (Cured 28 Days or Longer)

1. Remove all dust and dirt, and ensure the surface is completely dry.
2. The surface must be free from all contaminants to allow penetration of Sikagard®-200 HD WB into the pores of the concrete.
3. If acid is used to remove surface coatings, the acid must be neutralized and the surface flushed with water and allowed to dry completely before application of Sikagard®-200 HD WB.
4. Apply Sikagard®-200 HD WB to a test area to verify effectiveness and final surface finish

APPLICATION

Sikagard®-200 HD WB must fully saturate the concrete for maximum effect. Apply sufficient product to saturate the concrete without puddling.

New Concrete

1. After final finishing, as soon as all surface water has

evaporated and the concrete can bear foot traffic, apply Sikagard®-200 HD WB with a low-pressure sprayer. Keep the entire surface wet with Sikagard®-200 HD WB for a full 30 minutes by spraying or by brooming excess material from low spots to saturate dry spots.
2. As Sikagard®-200 HD WB begins to penetrate into the surface, lightly sprinkle the surface with water to aid penetration.
3. When the surface begins to dry a second time, flush with water and use a squeegee or broom to remove excess material or impurities that may have been brought to the surface.
4. To improve sheen, dry buff with a non-abrasive pad the following day.

Existing Concrete (Cured 28 Days or Longer)

1. Saturate the surface with undiluted Sikagard®-200 HD WB. Keep the entire surface wet with Sikagard®-200 HD WB for a full 30 minutes by spraying or by brooming excess material from low spots to saturate dry spots.
2. After 30-40 minutes, if most of the Sikagard®-200 HD WB has been absorbed into the surface, broom or squeegee any excess material from the low spots so it may be absorbed into the surface or completely removed from it. Flush floor clean with water.
3. Alternatively, use a floor buffing machine with a non-abrasive pad to help work Sikagard®-200 HD WB into fully cured concrete during application.

CLEANING OF TOOLS

Clean brushes, tools and equipment with clean water immediately after use. Thoroughly flush sprayers. Dispose of unused material according to local regulations.

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 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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