



We create chemistry

Technical Data Guide

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Concrete
Finishing

MasterKure® HD 200WB

Hardening, sealing and dustproofing compound

FORMERLY KURE-N-HARDEN™

PACKAGING

5-gallon (18.9 L) pails
55-gallon (208 L) drums

COLOR

Clear

YIELD

150–200 ft²/gal (3.68 – 4.9 m²/L)

Coverage may vary with application method, surface conditions, and porosity.

STORAGE

Store in unopened containers in cool, dry area between 35 and 85° F (4 and 29° C). Keep from freezing.

SHELF LIFE

15 months when properly stored.

VOC CONTENT

0 g/L less water and exempt solvents.

DESCRIPTION

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

PRODUCT HIGHLIGHTS

- 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

APPLICATIONS

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

HOW TO APPLY

SURFACE PREPARATION

NEW CONCRETE

1. Freshly finished concrete surfaces require no surface preparation if MasterKure HD 200WB 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 MasterKure HD 200WB 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 MasterKure HD 200WB.
4. Apply MasterKure® HD 200WB to a test area to verify effectiveness and final surface finish.

APPLICATION

MasterKure HD 200WB 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 MasterKure HD 200WB with a low-pressure sprayer. Keep the entire surface wet with MasterKure HD 200WB for a full 30 minutes by spraying or by brooming excess material from low spots to saturate dry spots.
2. As MasterKure HD 200WB 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 MasterKure HD 200WB. Keep the entire surface wet with MasterKure HD 200WB 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 MasterKure HD 200WB 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 MasterKure HD 200WB into fully cured concrete during application.

DRYING TIME

1. MasterKure HD 200WB 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 MasterKure HD 200WB must completely dry before accepting any traffic. Allow 24 hours before subjecting to heavy traffic.

CLEAN UP

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

FOR BEST PERFORMANCE

- On exterior applications, rapid drying conditions may greatly reduce the effectiveness of MasterKure HD 200WB 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 MasterKure HD 200WB freezes, warm and restir to uniformity. If separation is persistent, discard product.
- Install joint sealants before application of MasterKure HD 200WB; if not possible, test first for aHDesion.
- 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 MasterKure HD 200WB. 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 MasterKure HD 200WB.
- Do not allow MasterKure HD 200WB 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 MasterKure HD 200WB.
- One application of MasterKure HD 200WB 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; call Customer Service (1-800-433-9517) to verify the most current versions.
- Proper application is the responsibility of the user. Field visits by BASF personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

Technical Data

Composition

MasterKure HD 200WB is an alkali-silicate hardener.

Compliances

- USDA compliant for use in meat and poultry areas

Test Data

PROPERTY	RESULTS	TEST METHODS
Compressive Strength, psi (MPa)		ASTM C 109, modified
Untreated	5,000 (34.5)	
MasterKure HD 200WB treated*	6,000 (41.4)	
20% increase in compressive strength at 3 days over untreated samples		
Comparative Abrasion Resistance, g loss		Taber Abraser CS-17 Wheel
1,000 g load, 1,000 revolutions		
Untreated sample	8, (100%)	
MasterKure HD 200WB treated*	6, (78%)	
20% increase in abrasion resistance over untreated samples		
Moisture Retention, g loss		ASTM C156
Untreated sample	90	
MasterKure HD 200WB treated*	63	
30% improvement in moisture retention		

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

Test results are averages obtained under laboratory conditions. Reasonable variations can be expected.

Chemical Resistance

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

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

HEALTH, SAFETY AND ENVIRONMENTAL

Read, understand and follow all Safety Data Sheets and product label information for this product prior to use. The SDS can be obtained by visiting buildingsystems.basf.com, e-mailing your request to basfbcst@basf.com or calling 1(800)433-9517. Use only as directed.

**For medical emergencies only,
call ChemTrec® 1(800)424-9300.**

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