



Colloidal TRU HARD

Concentrated colloidal silicate concrete densifying solution

PRODUCT DESCRIPTION

Colloidal Ultra Hard is a unique colloidal silica concrete hardener used to greatly improve the long term durability and appearance of concrete floors and walls. It is designed to be used in the process of concrete curing to increase the strength and finish of the surfaces, allowing faster application of finishes such as tile and other flooring. It is also used in the process of polishing concrete to increase sheen and reflectivity, while reducing permeability of concrete floors. It works by reacting with concrete deep on the slab, blocking up capillaries to prevent water transmission by forming a permanent insoluble gel contaminant barrier. It can be applied to newly placed concrete as soon as it sets to close the surface and act as a curing aid. It will also perform extraordinarily well with concrete slabs that are decades old. Colloidal Ultra hard will help dry out "wet" basements to allow for finicky high performance coating such as epoxy and urethane systems. It is considered to premium of all silicate hardening solutions.

FEATURES AND BENEFITS

- Concentrated for best value
- Resists deep penetration of many liquids and chemicals
- Greatly improves wear resistance
- Will not discolor, peel or blush over time
- Dustproofs
- Provides flame retardant, non-toxic surface
- Can be applied to green concrete to greatly reduce cure time before placing finishes on surface
- V.O.C. compliant

TYPICAL APPLICATIONS

Large untreated slabs such as warehouse floors, big box stores, schools, community buildings, hotels, etc.
Floors subject to grind and polish to create a very green and maintenance free surface. Concrete basements where there is a moisture issue. Concrete countertops. Anywhere a more wear resistant concrete floor is desired.

TECHNICAL INFORMATION

COMPOSITION: Water based aqueous colloidal silicate solution with added penetrating agents.

PHYSICAL DATA: APPROXIMATE VALUES @ 70 °F (21.1°C):

Color:	Clear solution
Weight/gallon:	9 lb.
pH:	10.0 +/- 0.50 (Alkaline)
V.O.C. levels	under 40
Viscosity):	10 cps
% Actives:	15%

COVERAGE

Application Surface: Varies

First Coat
250-350

Optional Second Coat
250-350

*Coverage rates vary depending upon surface porosity and texture, and application method.
Follow directions for best results.

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IMPRESSIONS

Walttools, 1262 Leah Rd, Morris, IL 60450
888.263.5895 **www.walttools.com**

INSTRUCTIONS

SURFACE PREPARATION: EXISTING (OLD) CONCRETE: Surfaces to be treated must be structurally sound, clean and free of all contaminants, resins, or previously applied sealants that will prevent the penetration of Hardener. First remove any grease or oil contaminants on the old concrete surface if they are present. Second, remove any other contaminants such as glues, mastics and other coatings which may impede the penetration of the Colloidal Tru Hard.

NEWLY POURED CONCRETE: Recommended concrete mix designs should be 4000 psi minimum. Newly placed concrete should be cured a minimum of 6 hours (hard enough for foot traffic before application. If resin based curing compounds were used on older slabs, these will need to be removed prior to applying the densifier.

MIXING: Colloidal Tru Hard should be mixed 4:1 with potable water, thus one gallon will create five gallons of solution.

APPLICATION: Colloidal Tru Hard is typically applied by low pressure spray though other methods may be appropriate. Coverage is typically 250 square foot per gallon, but will vary with substrate porosity as more porous floors will absorb heavier. For NON polishing jobs, completely saturate the slab, and if possible, work the sealer into the surface by soft tip broom for 15 minutes. This will help avoid puddles. Gently flush away any standing puddles after 20 minutes with water. When polishing, Colloidal Tru Hard is usually applied before the last two stages of polishing. Once applied in the above manner, wait two hours before resuming the polish process. Allow the surface to dry 12 hours before exposing to foot traffic, 24 hours for vehicles. To maintain gloss, cleaning should be done on a regular basis to reduce abrasive sand or dirt contaminants.

CAUTIONS: Colloidal Tru Hard is considered a penetrating hardener and curing aid and is not a film forming type sealer thus is not recommended for use as a stain blocker.

If any white residue becomes visible, this is easily removed by broom or mop.

Do not apply in temperatures below 55° F or above 90° F. Do not apply to frozen or frost filled surfaces. The treated surface will be slippery during application and until dry.

CLEAN-UP AND REMOVAL

Soap and water.

PRECAUTIONS AND LIMITATIONS

WARNINGS: KEEP FROM FREEZING. If frozen, thaw to room temperature before use. Colloidal Tru Hard is a mildly caustic compound. Avoid contact with skin and eyes. Wear protective clothing and safety glasses during application. Keep away from food and drink. Do not take internally. Keep away from children.

Use of Colloidal Tru Hard does not make any guarantees of creating a water proof or stain proof surface.

NOTES

Please consult Material Safety Data Sheet (MSDS) and read Warranty information prior to use. This information can be Requested by contacting customer service at 888.263.5895.

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