



REFLECTIVE FLOOR®

REFLECTIHARD® CONCRETE DENSIFIER

COLLOIDAL SILICA TECHNOLOGY

ReflectiHARD Densifier is formulated utilizing reactive colloidal silica nano particles, suspended in an ultra-low surface tension liquid. Its low viscosity and nano particle size allow it to deeply penetrate into the substrate. ReflectiHARD chemically reacts with the calcium hydroxide (lime) within the concrete matrix to create additional Calcium Silicate Hydrate (CSH) cementitious compounds. Colloidal silica is unique in comparison to silicate technologies in that it reacts and bonds with not only the silica within the concrete matrix but with itself. Its self-reactivity creates new permanent cementitious compound bonds, enabling it to build up density in a way that silicate technologies cannot do.

ReflectiHARD Densifier has been manufactured using a proprietary 'green' process resulting in it being a zero VOCs, non-toxic liquid that does not require any scrubbing in, removal or disposal of hazardous materials, therefore making it safe and easy for end users to handle, and can be used for wet or dry processes. ReflectiHARD provides long-term sustainability by improving surface performance and extending its service life by creating an extremely abrasion and impact resistant floor. ReflectiHARD works very well with low lime decorative cementitious overlays.

TECHNICAL INFORMATION

Appearance/Color/Odor	Liquid / White / None
pH	10 - 11
VOC Content	Not Determined
Flash Point	Non-Flammable
Freezing Point*	32°F (0°C)
Shelf Life*	12 Months, Unopened

APPLICATION RATES

400 to 600 SF / Gallon (9.8 - 14.7 m²/L)

Coverage rates and drying times will vary due to the wide variety of differences in concrete's quality, porosity, temperature, and relative humidity.

STORAGE & HANDLING

Do NOT allow product to freeze.* Store in a cool and dry location in original labeled container. Maintain ambient temperatures above 41°F (5°C) and below 95°F (35°C) Do not alter or mix with other chemicals.

*Colloidal silica is a freeze sensitive material. If allowed to freeze, the product will irreversibly agglomerate or gel. If the product has been frozen, it will most likely be rendered useless and must be disposed of. If exposed to high storage temperature for extended periods, the shelf life of the product may be shortened. To reduce temperature effects to colloidal silica products and maximize shelf life, it is recommended having a storage temperature of 68°F.

ADVANTAGES

- Fast Reacting Colloidal Silica Formulation
- Significantly Increases Sub-Surface Density & Hardness
- Improves Abrasion Resistance for Long Term Durability
- Dust Proofs
- Blocks Efflorescence
- Prevents ASR
- Increases Resistance to Liquid Penetration & Staining
- Increases Impact Resistance
- Does Not Yellow or Whiten Concrete
- Ready to Use Formula
- May Contributes to Green Initiatives
- Can be Used for Wet or Dry Process

PACKAGING

5 Gallon/Pails // 55 Gallon/Drums // 275 Gallon/Totes



REFLECTIVE FLOOR
ARCHITECTURAL POLISHED CONCRETE SYSTEMS





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PRE-SURFACE TESTING

To assure the desired performance, appearance, and specifications are met, it is highly recommended to perform a mock-up/test on an area large enough to properly represent the entire substrate that will be treated, using the same coverage rates, tooling, methods, techniques, equipment, and installer.

SURFACE PREP

Ensure surface is free of all dust, debris, any film forming curing compounds, sealers, oils, or contaminants that will prevent ReflectiHARD from penetrating the surface. Do not use acidic cleaners. Use ReflectiCLEAN Concrete Cleaner or similar designed for concrete.

APPLICATION DIRECTIONS

Substrate and ambient conditions the substrate should be 40°F and rising, and not to exceed 95°F.

Using a low-pressure sprayer, apply moving in a circular motion, at least 12 inches above surface to achieve even coverage. Apply to rejection; enough product to ensure complete surface saturation. Follow using a soft broom or microfiber pad to evenly distribute and to prevent puddling. Keep surface wet for minimum 20 minutes, applying additional ReflectiHARD as needed for any areas that become dry. Allow surface to dry completely before continuing.

CLEAN UP // DISPOSAL

Use soap and water. Any product that cannot be saved or recycled should be triple rinsed. Do not dump in storm drains or sewers. Containers are readily recyclable once thoroughly cleaned. Dispose of according to local, state, and federal regulations.

MAINTENANCE

Routine cleaning with ReflectiCLEAN Concrete Cleaner is recommended using a micro-fiber mop or auto scrubber equipped with soft pads. DO NOT USE cleaners that have butyl compounds or citrus, these acidic cleaners will damage the floor. Contact Us or your Sales Rep for a Reflective Floor Maintenance Guide.

SAFETY & FIRST AID

Do not handle until all safety precautions have been read and understood. Always read in full product SDS

for additional precautionary instructions before use. Use appropriate Personal Protection Equipment (PPE) during application and handling.



WARNING: Keep out of the reach of children. May be harmful if swallowed. Harmful in contact with skin. Causes serious eye irritation. May be harmful if inhaled. Do not breathe dust, mist, &/or spray. Wear respirator protection if needed

Wear protective chemical resistant gloves (*butyl, latex/rubber, neoprene or nitrile*), protective clothing that covers any exposed skin, safety eyeglasses or goggles with side shields. Wash hands, face, arms, any exposed skin thoroughly after handling. Take off contaminated clothing and wash before reuse. **IF SWALLOWED:** Get emergency medical help immediately. Call 9-1-1, emergency room (ER) or similar, &/or doctor. Rinse mouth. Do NOT induce vomiting. **SKIN:** Wash with plenty of water and soap. **EYES:** Rinse cautiously with water for several minutes. Remove contacts lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical help. **INHALED:** Get medical help. Remove person to fresh air and keep comfortable for breathing. If symptoms persist, consult medical advice. **Consult Safety Data Sheet for specific First Aid treatment & further details regarding the safe use of this product.**

**24 Hour Emergency: INFOTRAC
(800) 535-5053 (US & Canada)
(352) 323-3500 (International)**

WARRANTY

Reflective Floor® products are intended for use by professionals only. It is the end user's responsibility to follow all directions of use. It is warranted to be of uniform quality, within manufacturing tolerances. The manufacturer has no control over the use of this product, therefore, no warranty, expressed or implied, is or can be made either as to the effects or results of such use. In any case, the manufacturer's obligations shall be limited to refunding the purchase price or replacing the proven defective Reflective Floor® product. The end user shall be responsible for determining product's suitability and assumes all risks and liability. *For complete Warranty Disclaimer, consult website.

REFLECTIVE FLOOR®
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FOR MORE PRODUCT INFO
Contact Us at (667) 701.1700
or VISIT ReflectiveFloor.com

