

Concrete Densifier - LS

INNOTECH™ CONCRETE DENSIFIER - LS is a water-based Lithium Silicate concrete chemical densifier/hardener treatment formulated for architectural concrete and terrazzo surfaces to rapidly produce a harder surface for the grind/polish process. This environmentally friendly treatment forms a protective surface layer that is breathable, dense and abrasion-resistant. It will also reduce alkalinity (efflorescence), improves overall abrasion resistance and reduces dusting. INNOTECH CONCRETE DENSIFIER - LS is also recommended for use in conjunction with INNOTECH STAIN-GUARD† to provide enhanced stain and water resistance while also increasing the gloss level.

Product Features and Benefits

INNOTECH CONCRETE DENSIFIER - LS...

- Is designed to work with INNOTECH LIQUID DYE CONCENTRATE†
- Protects with a one-coat application
- Deepens clarity and heightens reflectivity (gloss)
- Penetrates and seals existing hardened floors for improved chemical and water resistance
- Increases abrasion resistance and extends service life of the floor
- Reduces alkalinity / efflorescence / sweating
- Is user-friendly, non-whitening and environmentally safe (VOC compliant: less than 50 g/l)
- Is for interior and exterior applications
- Will not contribute to alkali-silica reactivity (ASR)
- Penetrates 3-8 mm based on the porosity of the concrete

Prior to Application

- Surrounding areas and adjacent surfaces must be masked or protected from overspray or spills.
- Integrally colored concrete: It is recommended that the concrete be cured 28 days.
- The concrete must be ground to an initial surface profile of (80-200 grit) prior to application. This step opens up the surface to allow for better penetration. If wet grinding, allow the concrete to dry prior to application of INNOTECH CONCRETE DENSIFIER - LS. Concrete that was contaminated with grease, oil or other substances after the initial grinding should be cleaned thoroughly with INNOTECH CONCRETE DEGREASER & NEUTRALIZER† and then rinsed with water before continuing.
- If applying INNOTECH LIQUID DYE CONCENTRATE†, allow the surface to completely dry. If surface is not completely dry it will prevent the Dye from penetrating into the concrete pores.

Application Methods

- Spray Application: Pump-up type professional sprayer with a fan tip or Low-Pressure sprayer (HVLP).
- Push Broom Application: Use a broom equipped with nylon or soft polystyrene bristles.

Product Application

- Mix, shake or stir thoroughly before applying.
- Product is best applied with a quality pump-up type sprayer with a fan tip or low-pressure sprayer (HVLP). You can also use the pour and broom method for smaller areas.
- Application rate of INNOTECH CONCRETE DENSIFIER - LS should be at 300-500 sq. ft. per gallon.
- Once a wet film has been applied, broom out any puddles and allow the material to remain on the surface for 20-30 minutes. **DO NOT LET ANY AREA DRY OUT** during this time.
- Add more INNOTECH CONCRETE DENSIFIER - LS as needed in order to maintain a uniformly wet surface sheen.
- After 20 minutes or when the product begins to dry you may broom out any wet areas into dry areas for proper coverage and penetration.
- Product should be completely dry in approximately 45 minutes or it has been over applied.
- If product is a little over applied, it will dry out and turn to dust which then can be picked up with a vacuum or scrubber.

Polishing Process

- Once the material has penetrated and is no longer glistening on the surface, continue the grinding and polishing process to the intended final surface profile and desired finish which typically ranges from 800- to 1,500-grit.
- If INNOTECH LIQUID DYE CONCENTRATE† is being utilized for color, it is typically applied at the 400-grit level (for increased color intensity is sometimes applied once more prior to the final finished polishing process).
- If using a wet polishing method, or on integrally colored concrete, we recommend using an auto scrubber and water to remove residual slurry between abrasive/polishing disc grits.
- Once all steps of the grind/polishing process is complete, allow the floor to completely dry.

Product Limitations

- INNOTECH CONCRETE DENSIFIER - LS is not a membrane forming curing compound.
- The product can react with glass and aluminum, and those areas must be protected.
- Floors treated with INNOTECH CONCRETE DENSIFIER - LS should not be cleaned with acidic cleaners as it will cause discoloration on the surface.
- Do not apply to surfaces that are wet as it will reduce the product from penetrating.
- Do not use Airless Sprayers.
- Do not dilute the product.
- INNOTECH CONCRETE DENSIFIER - LS can create slippery surfaces during application, caution should be exercised.
- When properly applied INNOTECH CONCRETE DENSIFIER - LS will not alter the Coefficient of Slip.

Maintenance

- Floors that have been properly grinded, densified and polished are usually very durable and typically require very little maintenance.
- To clean floors we recommend a neutral pH cleaner like INNOTECH FLOOR CLEANER†. However, for increased gloss and to protect against certain acidic, oils or food products that can stain a polished concrete surface, we recommend a 1-2 coat application of INNOTECH STAIN-GUARD†. Please reference the INNOTECH STAIN-GUARD† for additional information.

Available Packaging and Coverage Information

Packaging: INNOTECH CONCRETE DENSIFIER - LS is available in 5-gallon units.

Coverage rates may vary depending on the texture, porosity and condition of the concrete, application method, and other local conditions.

- Coverage is approximately 300-500 s.f. per gallon (for concrete ground to 80-200 grit).

Product Shelf Life/Storage

Store INNOTECH CONCRETE DENSIFIER - LS indoors, away from heat and direct sunlight. Do not allow product to freeze. Shelf Life: 12 months.

Applicable Standards

INNOTECH CONCRETE DENSIFIER - LS complies with the following regulations and requirements:

- USDA Approved for incidental food contact
- VOC: Less than 50 grams g/l
- May contribute to earning LEED credits for Indoor Environmental Quality, EQ Credit 4.2: Low-Emitting Materials: Paints & Coatings, based on low contributions of VOC.

Technical Information

Please refer to the corresponding MSDS for hazard-related information.

- Color Clear
- Odor Mild
- Specific Gravity 1.036
- pH +/- 11
- Depth of Surface Penetration 3-8mm (dependant on surface porosity)
- Friction Test data Dry & Wet does not significantly change surface friction
- USDA approved Yes

Product Handling

Prior to using INNOTECH CONCRETE DENSIFIER - LS, please reference the corresponding Material Safety Data Sheet to ensure safe handling.

Product Warranty

INNOTECH CONCRETE DENSIFIER - LS is a proprietary product, warranted to be of uniform quality within our stringent manufacturing tolerances. As no control is exercised over the product use, no warranty is made as to the effects of such use (neither expressed or implied). Obligation of the seller and manufacturer under this warranty shall be limited to a refund of the purchase price of that portion of the material proven to be defective. The user assumes all other risk and liability resulting from uses of this product. Contact INNOTECH with any questions regarding this policy. *Innotech is a registered tradename of CHROMASYSTEMS LLC, an Ohio company.*

***PLEASE REFER TO CORRESPONDING TECHNICAL BULLETIN FOR PRODUCT AND APPLICATION DATA.**

INNOTECH CONCRETE DENSIFIER - LS and other INNOTECH products are for professional use only.

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