TECHNICAL DATA SHEET

SpecHard-Intraseal

Water-Based Silicate/Siliconate Sealer/Densifier

DESCRIPTION

SpecHard-Intraseal is a proprietary, colorless blend of silicates and siliconates that increases the wear surface strength of concrete floors subjected to pedestrian and vehicle traffic. SpecHard-Intraseal penetrates concrete surfaces to seal, densify and harden. SpecHard-Intraseal floors last longer, cost less to maintain, are safe to use and are guaranteed to resist dusting for years after application. It is VOC compliant, odorless, environmentally safe and simple to apply. SpecHard-Intraseal penetrates the concrete surface and undergoes a chemical reaction that turns the substrate into a hardened, densified mass. Treated surfaces are more abrasion-resistant and more resistant to chemicals and water than untreated concrete. The deeply penetrating chemical action leaves no film and will not alter the natural non-slip texture of the floor.

BENEFITS

- Reduces porosity and increases hardness of the concrete surface
- VOC compliant and non-yellowing
- Resists staining and penetration of oil and many chemicals
- Minimizes tire marks and makes them easier to remove
- Can be applied to fresh, new or existing concrete
- Low sheen enhances the appearance of the concrete surface
- Compatible with SpecChem SpecTilt bond breakers for tilt-up projects
- Cures, seals, hardens, dustproofs and prevents efflorescence
- Promotes bonding of secondary toppings
- Controls hairline cracking
- One application; economical; water clean-up

COMPLIANCE/STANDARDS

- SpecHard-Intraseal has been tested per CDPH Standard Method v1.2 and complies with all LEED v4 requirements
- USDA accepted; recommended for ACI 302 Class 1 through 5 concrete floors and Class 9 superflat floors
- Complies with ASTM F150 for static dissipative flooring
- Data center approved

APPLICATION

Existing Concrete – Surface Preparation: The surface must be clean and sound. Remove all dirt, grease, curing compounds or other foreign matter with SpecChem Citrus Cleaner. Completely rinse away any residue and allow to dry; the surface must be completely dry to allow penetration of SpecHard-Intraseal.

Existing Concrete – Application: Spray, squeegee or broom-apply based on concrete porosity. For best results, apply and scrub with mechanical scrubbers. Immediately follow with light brooming to assure penetration and avoid ponding. Keep the surface saturated with SpecHard-Intraseal for 20–30 minutes. As the surface absorbs SpecHard-Intraseal, apply a light water spray to enhance penetration and keep SpecHard-Intraseal in solution from drying on the surface. Squeegee away excess and allow to dry.

Caution: White crystals are a sign that the slab will not absorb any more SpecHard-Intraseal and that the surface has started to dry. Immediately flush with

water, brush with a stiff-bristle broom and squeegee away any surface water. Allow to dry. SpecHard-Intraseal will develop a low-gloss satin finish with use; if desired, a floor buffer can bring out the shine immediately on a well-finished, hard-troweled floor. Repeat the procedure on porous areas to ensure a uniform finish.

Fresh Concrete – Curing Application: After final troweling and bleeding, saturate the surface with a base coat of SpecHard-Intraseal at approximately 200 sq ft/gal (4.9 m^2/L). Optimum penetration is achieved by applying SpecHard-Intraseal 1–2 hours after final finishing (usually immediately after control joints have been cut). Broom or mop SpecHard-Intraseal into the slab, reapplying to areas that absorb it. Keep the slab saturated for 30–45 minutes, working the material in by brooming. Apply a light water spray to finalize penetration and dissolve any remaining SpecHard-Intraseal. After the saturation period, thoroughly rinse, then squeegee or brush off excess until dry. Although not compliant with ASTM C309 as a membrane-forming curing compound, SpecHard-Intraseal can be used as a curing compound and sealer by following the procedures above. When curing conditions are severe (wind, sun, etc.), using SpecHard-Intraseal together with an ASTM C309 curing compound will provide greater durability and abrasion resistance. Contact SpecChem for specific procedures.

COVERAGE

Surface	sq ft/gal	m^2/L
Hard-troweled finish	200–350	4.9–8.6
Broom or float finish	150–250	3.7–6.1
Rough slab finish	150–200	3.7–4.9
Old concrete	150–250	3.7–6.1

Exact coverage depends on the porosity and roughness of the slab; extremely porous or rough concrete may need more than one coat. Application at temperatures above 40 °F (4 °C) and rising is recommended.

TECHNICAL DATA INFORMATION

Active ingredients..... 100% proprietary blend
Flash point / odor..... None / none
Color..... Clear
Dry time..... 2–4 hours
VOC..... 0.0 g/L

Test Data

Abrasion resistance (C779)..... >26% improved
Compressive strength (C140)..... >14% improved
Impact resistance (C805)..... >10% improved
Permeability (C642)..... >76% reduced
Skid resistance (C303)..... Good
Vapor transmission (E96)..... >8.0 g/hr/sq ft
Weatherability/UV (G23)..... No change
Depth of penetration..... >3.5 mm
Specific gravity..... 1.16

PACKAGING

55-gallon drums (208.2 L)

5-gallon pails (18.9 L)

SHELF LIFE

Store SpecHard-Intraseal containers in a clean, dry area between 40 °F and 100 °F (4–38 °C). Shelf life in unopened containers is two years if properly stored. Do not freeze.

LIMITATIONS

- When SpecHard-Intraseal is applied to fresh concrete, keep pozzolan (fly ash, blast-furnace slag) content in the mix design to a minimum (5–10% by weight of portland cement) to optimize sealing and hardening, or wait a minimum of 14 days to apply.
- Protect metal, glass, brick and painted surfaces from SpecHard-Intraseal. If accidentally misapplied, wash with clean water at once.
- Do not use over colored or pigmented concrete, or as a cure on slabs intended as a tilt-up casting bed, without consulting SpecChem Technical Services.
- If freezing occurs, contact SpecChem.

PRECAUTIONS

Keep out of the reach of children. Do not take internally. Avoid prolonged contact with skin. If swallowed, call a physician. If splashed in eyes, wash repeatedly with clean water and call a physician. Wear rubber gloves, goggles and protective clothing. Avoid hazards by following all precautions in the Safety Data Sheet (SDS), product labels and technical literature; read this information prior to using the product.

For assistance, contact Technical Services at 866-791-8700 or 816-968-5600.

WARRANTY

NOTICE – READ CAREFULLY

CONDITIONS OF SALE

SpecChem offers this product for sale subject to and limited by the warranty which may only be varied by written agreement of a duly authorized corporate officer of SpecChem. No other representative of or for SpecChem is authorized to grant any warranty or to waive limitation of liability set forth below.

WARRANTY LIMITATION

SpecChem warrants this product to be free of manufacturing defects. If the product when purchased was defective and was within use period indicated on container or carton, when used, SpecChem will replace the defective product with new product without charge to the purchaser. SpecChem makes no other warranty, either expressed or implied, concerning this product. There is no warranty of merchantability. NO CLAIM OF ANY KIND SHALL BE GREATER THAN THE PURCHASE PRICE OF THE PRODUCT IN RESPECT OF WHICH DAMAGES ARE CLAIMED.

INHERENT RISK

Purchaser assumes all risk associated with the use or application of the product.

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