

# 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 concrete substrate into a hardened, densified mass. Surfaces treated with SPECHARD-INTRASEAL are not only more abrasion resistant, but are 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 concrete floor.

## FEATURES/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 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 crack
- One application, economical, water clean up

## SPECIFICATIONS/COMPLIANCES

- SpecHard-Intraseal has been tested per CDPH Standard Method V1.2 and is in compliance with all LEED V.4 requirements.
- USDA Accepted. Recommended for ACI 302. Class 1 through 5 concrete floors, and class 9 super flat floor
- Complies w/ASTM F150 for Static Dissipative Flooring

### Typical Properties

Active Ingredients:	100%
Type:	Proprietary blend
Flash Point:	None
Odor:	None
Color:	Clear
Dry Time:	2-4 hours
VOC:	0.0 gram/liter

## APPLICATION

### Sealer/Densifier Application:

#### Coverage:

Hard Troweled Finish	200-350 ft <sup>2</sup> /gal
Broom or Float Finish	150-250 ft <sup>2</sup> /gal
Rough Slab Finish	150-200 ft <sup>2</sup> /gal
Old Concrete	150-250 ft <sup>2</sup> /gal

The exact coverage depends upon the porosity and roughness of the slab. If the concrete is extremely porous or rough, more than one coat may be necessary.

Application temperature above 40° & rising is recommended.

## APPLICATION (con't)

### Application to Existing Concrete:

**Surface preparation:** Surface must be clean and sound. Remove all dirt, grease, curing compounds or other foreign matter with SpecChem Citrus Cleaner. Completely rinse any residue away and allow to dry. Surface must be completely dry to allow for penetration of SPECHARD-INTRASEAL.

**Application:** Spray, squeegee or broom apply based on concrete porosity. For best results, SPECHARD-INTRASEAL should be applied and scrubbed using mechanical scrubbers. Immediately follow application by light brooming to assure penetration and to avoid ponding. Keep surface saturated with SPECHARD-INTRASEAL for 20-30 minutes.

As the surface absorbs the SPECHARD-INTRASEAL, apply a light water spray to enhance penetration and to keep the SPECHARD-INTRASEAL in solution from drying on the surface.

**Squeegee away excess and allow to dry.**

## TEST DATA

Improved Abrasion Resistance ASTM C-779	>26%
Improved Compressive Strength ASTM C-140	>14%
Improved Impact Resistance ASTM C-805	>10%
Reduced Permeability ASTM C-642	>76%
Skid Resistance ASTM C-303	>Good
Reduced Vapor Transmission ASTM E-96	>8.0gm/hr/sq-ft
Weatherability/UV Stability ASTM G-23	No change
Depth of Penetration	>3.5mm
USDA Accepted	Yes
Specific Gravity	1.16



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## APPLICATION (con't)

**Caution:** Should white crystals develop, it is 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 any surface water away. 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 procedure to porous areas to ensure a uniform finish.

### Application to Fresh Concrete:

**Curing Application:** After the final troweling and bleeding, saturate the concrete surface with a base coat of SPECHARD-INTRASEAL at approximately 200 ft<sup>2</sup> per gallon. Optimum penetration can be achieved by applying SPECHARD-INTRASEAL 1-2 hours after final finishing (usually immediately after control joints have been cut). Broom or mop the SPECHARD-INTRASEAL into the slab, reapplying SPECHARD-INTRASEAL to areas that absorb the sealer.

Keep the slab saturated with SPECHARD-INTRASEAL for 30-45 minutes, working it into the concrete by brooming. Apply a light water spray to the treated area to finalize penetration and dissolve any remaining SPECHARD-INTRASEAL. After the saturation period, thoroughly rinse and then squeegee or brush off excess SPECHARD-INTRASEAL until dry.

Although not compliant with ASTM C309-91 as a membrane forming curing compound, SPECHARD-INTRASEAL can be used as a curing compound and sealer by following the aforementioned procedures.

When curing conditions are severe (wind, sun, etc.), the use of SPECHARD-INTRASEAL and an ASTM C309-91 curing compound in conjunction with the SPECHARD-INTRASEAL will provide concrete flatwork with greater durability and abrasion resistance. Contact SpecChem for specific application procedures.

## LIMITATIONS/PRECAUTIONS

When SPECHARD-INTRASEAL is to be applied to fresh concrete, pozzolanic (fly ash, blast furnace slag) usage in concrete mix designs should be kept to a minimum (i.e. 5-10% by weight of Portland cement) to optimize the sealing and hardening effects of SPECHARD-INTRASEAL or wait a minimum of 14 days to apply. Protect metal, glass, brick and painted surfaces from SPECHARD-INTRASEAL. If accidentally mis-applied, wash with clean water at once.

Do not use over colored or pigmented concrete or as a cure on slabs intended for use as a tilt up casting bed without consulting SpecChem technical services. If freezing occurs, contact SpecChem.

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 found in the Safety Data Sheet (SDS), product labels, and technical literature. Please read this information prior to using the product. Application temperature above 40° & rising is recommended.

## PACKAGING

55 gallon drums (208.2 L)

5 gallon pails (18.9 L)

## STORAGE/SHELF LIFE

SPECHARD-INTRASEAL containers are to be stored in a clean, dry area between 40°F and 100°F (5°C - 40°C). Shelf life of SPECHARD-INTRASEAL in unopened containers is 2 years if properly stored. Do Not Freeze.

## TECHNICAL SERVICES

For assistance, contact technical services at:

866-791-8700

816-968-5600

[www.specchem.com](http://www.specchem.com)

## 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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