



VC-5



Vapor Emission and Alkalinity Control

➤ **15-YEAR WARRANTY AVAILABLE**

➤ **UL® ENVIRONMENT VALIDATED**

➤ **EXCEEDS LEED REQUIREMENTS**

➤ **COMPATIBLE WITH ALL FLOORING**

PRODUCT DESCRIPTION

SINAK VC-5™ provides identical results to water curing which is proven to produce the highest quality concrete. Concrete cured with **VC-5™** is significantly more durable and lower in permeability than concrete treated with other methods. **VC-5™** is effective in preventing plastic shrinkage cracking of the freshly placed concrete and is formulated to cure concrete slabs being placed in hot, low humidity, and/or windy conditions.

VC-5™ prevents failure of finished flooring systems due to concrete slab vapor emission, high internal relative humidity, and moisture borne alkaline contaminants. **VC-5™** is compatible with all adhesives, floor coverings, and surface treatments and includes a bond warranty.

VC-5™ will not form a coating or leave a residue, eliminating the requirement for shotblasting or similar mechanical surface preparation prior to the application of floor coverings or surface treatments. Should shotblasting or mechanical preparation be required, this will not void the **VC-5™** warranty. SINAK Corporation will provide a 15-year, fully transferable non pro-rated warranty. The warranty will not be void if cracks appear or the surface profile is damaged or mechanically altered.

Specify VC-5 for:

- Carpets
- Vinyl Composition Tiles
- Rubber Tiles and Sheetting
- Laminate Flooring
- Sheet Vinyl
- Hardwood
- Engineered Flooring (All types)
- Underlayments/Resurfacing Systems
- Epoxy Coatings
- Sport Flooring

SINAK SYSTEMS

- **SINAK Finishing Aid:** All concrete, grout and mortar products.
- **SINAK VC-5:** Moisture vapor and alkalinity control curing agent with 15yr flooring warranty.
- **SINAK LithiumCure 2000:** Hard trowelled/burnished slabs or polished concrete.
- **SINAK LithiumCure 1000:** All exterior open surface profiled concrete.
- **SINAK WCE:** Potable water applications.





Floor Covering Compatibility: Specify **VC-5™** to cure concrete slabs that will be covered with all types of floors and coatings. **VC-5™** will not leave a residue or film on the concrete surface. Should shotblasting or mechanical preparation be required, this will not void the **VC-5™** warranty. **VC-5™** is compatible with all types of floor coverings and adhesives, paint and coatings, underlayments, levelers, and joint sealants.

Composition and Materials: **VC-5™** is a water-based lithium compound with a proprietary formula in solution. It requires NO mixing, diluting or agitation. Color: Water clear; Toxicity: Non-toxic; VOC: contains NO volatile organic compounds.

TESTING

ASTM C-39 (Compressive Strength): Exceeds 7-day water cure results.*

ASTM C-1202 (Chloride Ion Penetration) (Coulombs): Superior to 7-day water cure.*

BS-1881 P5 (Initial Surface Absorption): Superior to 7-day water cure.*

ASTM C-309 (Water Retention): Complies with Section 6

*Independent laboratory reports are available upon request.

SUSTAINABLE DESIGN REQUIREMENTS

- ✔ Zero-VOC's
- ✔ UL 2818 Gold - GREENGUARD® Certified.
- ✔ Listed as Super-Compliant by the South Coast Air Quality Management District (SCAQMD).
- ✔ Exceeds the regulatory limits in the SCAQMD Rule 1113.
- ✔ Exceeds the requirements to qualify for LEED credit in the following areas: **EQ Credit 1.0, 4.1 and 4.3, EQ Credit 10 3.1, MR Credit 5.1 and 5.2**

INSTALLATION

VC-5™ application should begin as soon as the finishing operation is complete and the surface is firm enough to tolerate foot traffic or immediately after the early entry saw cutting. Installation should be continuous. If rain should occur at any time during this process, see 'Interrupted Applications' at the end of this section.

1. Protect objects and non-concrete areas from spillage or overspray.
2. Apply **VC-5™** in two (2) even coats, uniformly wetting the surface with a power or tank-type sprayer.
3. Immediately after the first coat is dry, apply a second coat. Apply the second coat perpendicular to the first coat to create a crosshatched pattern. Drying time will vary from 10 to 30 minutes depending

on temperature and environment.

NOTE: "Dry" means dry to the touch.

4. Clean all equipment by rinsing with water.

Interrupted Applications

If the application should be interrupted by rain, mark the place of interruption and continue application as soon as weather permits. Return to the place of interruption, following all the installation procedures as if there were no break in the installation.

Cold Weather Applications

In cold weather, but not lower than 35°F and rising, application and drying will be extended. Allow ample time between coats for drying. **DO NOT** apply below 32°F. If the temperature is expected to drop below 32°F, cover treated areas with thermal blankets. Contact SINAK Corporation for additional information.

Coverage Rates

Two-coat coverage rate is 300 square feet per gallon for smooth-troweled concrete.

STORAGE AND HANDLING

VC-5™ has an indefinite shelf life when stored in a cool dry area out of direct sunlight. Must be kept in tightly secured containers to prevent evaporation and contamination. **VC-5™** MUST be protected from freezing. Product that has frozen will not function as intended and should be discarded.

Precautions

FOR USE ON CONCRETE SURFACES ONLY. **VC-5™** may stain glass, metals, jewelry, and glazed materials. Contact SINAK Corporation for cleaning details.

The substrate will be similar to 7-day water-cured concrete, please refer to the floor manufacturer's recommendation for adhesive selection and application instructions. Note: Hardwood and engineered glue down wood floors (may) require an application of SINAK V-Poxy™. Contact SINAK Corporation for additional information.

AVAILABILITY

VC-5™ is available in 5-gallon pails, 55-gallon drums and 275-gallon totes from selected distributors.

TECHNICAL ASSISTANCE

Technical assistance is available from the manufacturer.

WARRANTY

A labor and material warranty is available for 15 years for all floor covering materials. The concrete must be placed in accordance with ACI manual section 302 Guide for Concrete Floor and Slab Construction. A maximum .45 water/cement ratio is required. For additional information about the warranty program, contact SINAK Corporation.

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