



Good Price, Better Service

# CRETESEAL<sup>®</sup> CS2000

## TECHNICAL DATA SHEET

### ADVANTAGES

- Pro-Active Day of Pour Moisture Vapor Emission Control System
- Prevents Excessive Moisture Vapor Emission and Alkalinity From Damaging Adhesives and Flooring
- Cures, Seals, Hardens, and Densifies New Concrete
- Easy Spray-Apply System Application
- Value-Engineered Integral Concrete Moisture Control

### DESCRIPTION AND USE

Creteseal<sup>®</sup> CS2000<sup>™</sup> is a specialty-blended moisture control system applied to freshly-placed concrete. Application is typically performed on the same day as the concrete placement. CS2000<sup>™</sup> is sprayed on and evenly distributed with a soft-bristle broom until it is completely absorbed within the slab. Creteseal<sup>®</sup> CS2000<sup>™</sup> penetrates the upper surface of the concrete slab to form a moisture vapor and alkalinity control system protecting the resilient flooring system.

CS2000<sup>™</sup> also serves as a curing agent and may be used for slabs on-grade, below-grade or above-grade wherever resilient flooring is specified. CS2000<sup>™</sup> is covered by OBEX's 15-year warranty against flooring failure resulting from negative-side moisture vapor migration or moisture-born alkalinity when OBEX installation requirements are followed. Please refer to the OBEX Creteseal<sup>®</sup> CS2000<sup>™</sup> Certified Installer Guide for detailed installation instructions.

CS2000<sup>™</sup> conforms to all state and federal VOC regulations, having zero VOC content (0 g/L). CS2000 is widely used in retail stores, warehouses, schools, grocery stores, professional offices, and healthcare facilities.

CS2000<sup>™</sup> Spray Apply system is a value-engineered, proactive moisture control system, and more economical compared to conventional retrofit systems that are applied after the concrete has cured. CS2000<sup>™</sup> is non-toxic, non-hazardous, low-odor, and contains no volatile organic compounds, waxes, resins, solvents, acrylics, epoxies, stearates, urethanes or oils and will not separate or plug applicator sprayers. CS2000<sup>™</sup> is environmentally-friendly, will not harm plants or animals, and is easy to clean up.

CS2000<sup>™</sup> is compatible with the following flooring materials: Wood, Carpet, Ceramic Tile, VCT, LVT, LVP, Sheet Flooring, Sports and Rubber Flooring, Epoxy Surface Coatings, Terrazzo, Linoleum, Polymer Coatings, Cementitious Toppings, as well as most flooring mortars and mastics.

### APPLICATION INSTRUCTIONS

Apply CS2000<sup>™</sup> to fresh concrete as soon as final finishing operations are complete and the concrete has hardened sufficiently to sustain foot traffic without damage. OBEX supplies industrial pump sprayers for every application of CS2000<sup>™</sup>. Spray the CS2000<sup>™</sup> at the rate of 200 square feet per gallon, brooming CS2000<sup>™</sup> evenly over the substrate until CS2000<sup>™</sup> has completely penetrated the surface.



The CS2000™ system is applied the day of the concrete pour or as soon as weather conditions permit, prior to any other chemical treatment. Construction traffic can resume as early as 2-4 hours after the CS2000™ application.

#### CS2000™ PRODUCT DATA

Packaging	5 US GL (18L)
Color	Clear
Coverage	200 ft <sup>2</sup> / per US GL.
Application Temp	22° F (slab temperature greater than 34°) to 90° F
Shelf Life	12 months if stored properly; Do not freeze
Cure Times	2-4 hours (foot & equipment traffic)
VOC Content	0 g/L ASTM E1868
LEED Projects	Meets USGBC LEED Criteria IEQ4

#### Tilt-Up Construction

CS2000™ is fully compatible with tilt-up construction and bond-breaker products. Casting slabs where CS2000™ is applied should be prepared according to bond-breaker manufacturer application procedures. OBEX recommends a minimum of 48-hours cure time between the completed CS2000™ application and any type of concrete surface cleaning. Typically the bond-breaker manufacturer requires a specific cleaning method prior to application of their product when installing over existing or previously cured concrete. OBEX recommends mechanically cleaning the concrete slab of any latent CS2000™ material and other construction debris in accordance with the bond-breaker manufacturer requirements, allowing the concrete to dry for 24 hours, then applying the bond-breaker per the manufacturers requirements. Always ensure sufficient bond-breaker has been applied by performing the water droplet test, or by following the bond-breaker manufacturer's preferred test method.

After panels are tilted up, install CS2000™ on all perimeter pour backs.

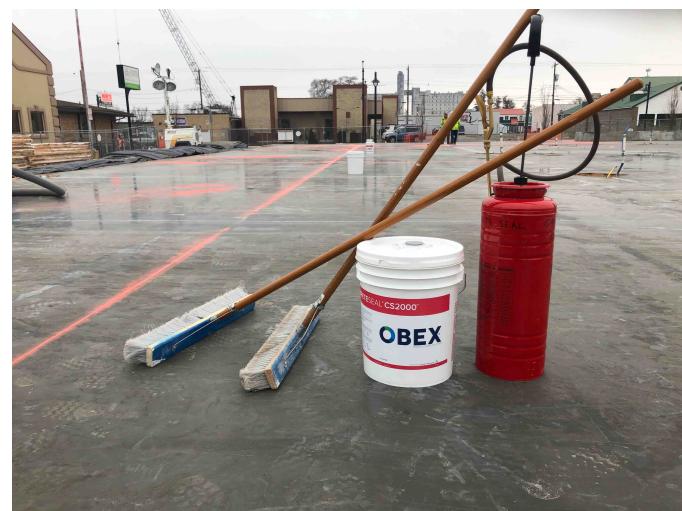
#### Variable Weather Conditions

Job site conditions with temperatures over 90°F, low humidity, and/or strong winds may require the applicator to pre-wet concrete slabs with clean potable water to aid in the penetration of CS2000™ and reduce the evaporation rate.

If within two hours after the initial CS2000™ application, the concrete is subjected to heavy rainfall and puddling occurs, reapply CS2000™ to these areas as soon as weather conditions permit.

Severe weather such as rain, snow, cold, excessive heat, wind, or job site conditions such as concrete not exposed to direct sunlight will affect the rate of concrete hydration and may delay the CS2000™ application until more acceptable environmental conditions exist.

In cold weather environments, CS2000™ can be installed at ambient temperatures above 22°F, so long as the slab temperature is above 34°F. OBEX recommends following ACI's 306R-16 Guide to Cold Weather Concreting during slab placement. After placement, slab temperatures should be





maintained via blanketing and/or radiant heating elements in accordance with ACI 306R-16.

## STORAGE AND HANDLING INSTRUCTIONS

Product containers should be kept tightly sealed and stored in a shaded area between temperatures of 40°F and 90°F. Avoid freezing. Should freezing of the product occur, please contact OBEX.

When handling CS2000™, OBEX recommends following OSHA standards. If splashed in eyes, flush thoroughly with water for 15-minutes. Prolonged excessive contact with skin should be avoided. Wash skin and clothing with water after using product.

## GUIDELINES FOR FLOORING INSTALLATION

Creteseal CS2000™ is a proactive approach for controlling moisture vapor emission and alkalinity.

**OBEX requires compliance with flooring manufacturer requirements and ASTM F710. Prior to floor covering installation, OBEX recommends:**

- Concrete slabs placed on grade or below grade must have a vapor retarder placed directly below the slabs with a minimum 10 mil thickness and permeance rating of 0.1y, as described in ASTM F710.
- The surface area shall be prepared and cleaned of all latent material, dust, debris, contaminants, and any loose material that would compromise the adhesive bond as described in ASTM F710.
- Any concrete grinding or cutting from the slab surface may remove a significant amount of the CS2000™ moisture control system. Contact OBEX for details in addressing these conditions to support a warrantable installation.

- Prior to moisture testing and flooring placement, the building must be acclimated and enclosed according to relevant industry standards. Whenever scheduling permits, OBEX recommends acclimating the building for at least one week prior to moisture testing. Prior to flooring installation, send to OBEX: 1) flooring submittal 2) moisture testing report for review and approval.
- All cracks/joints/voids must be cleaned out and filled with an OBEX approved patch or joint filler per ASTM F710 prior to placing the flooring system. OBEX recommends use of polyurea products for cracks and control joints, and offers OBEX Perfect Patch® in cartridges and bulk kit packaging for this purpose.
- Before any skim and patching compounds are applied to the slab, check the concrete surface porosity to evaluate the need for a primer in conjunction with patching materials.
- CS2000 is compatible with all flooring adhesives. Please validate the specific flooring manufacturer adhesive characteristics prior to flooring placement.

## FIRST AID / SAFETY INFORMATION

FOR PROFESSIONAL USE ONLY. Read Safety Data Sheets (SDS) before using product. Avoid contact with eyes, skin, clothing. Observe appropriate safety and job site controls. Wear appropriate protection including eye protection and chemical-resistant gloves. Do not take internally.

**SEE SDS FOR A FULL LIST OF HEALTH AND SAFETY WARNINGS**

**OBEX**

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**Creteseal**



## Creteseal® CS2000™ Installation Record



Project Name: \_\_\_\_\_

Phase \_\_\_\_\_ of \_\_\_\_\_ Job Phone: \_\_\_\_\_

Project Address: \_\_\_\_\_

Onsite Contact: \_\_\_\_\_ Phone: \_\_\_\_\_

Owner: \_\_\_\_\_ Phone: \_\_\_\_\_

Owner Address: \_\_\_\_\_

Architect: \_\_\_\_\_

Gen Contractor: \_\_\_\_\_ Phone: \_\_\_\_\_

**Phase Sq. Ft:** \_\_\_\_\_ **Total Project Sq. Ft:** \_\_\_\_\_

Vapor Retarder: Y / N Type: \_\_\_\_\_ Mil: \_\_\_\_\_

CS2000™ Coverage: \_\_\_\_\_ SF/GL 5 GL Units Used: \_\_\_\_\_

Application Date: \_\_\_\_\_ CS2000™ Lot Number(s): \_\_\_\_\_

Ambient Temperature: \_\_\_\_\_ R.H. % \_\_\_\_\_ Concrete Slab Temp (Cold Weather Install Only): \_\_\_\_\_

Concrete Slab: Below Grade  On Grade  Above Grade  Level No: \_\_\_\_\_

Building Number: \_\_\_\_\_ Room Numbers: \_\_\_\_\_

Proposed Floor Covering\* or Finished Surface: \_\_\_\_\_

\*Prior to flooring installation, send to OBEX: 1) flooring submittal 2) moisture testing report for review and approval

- |                           |                         |                         |                     |
|---------------------------|-------------------------|-------------------------|---------------------|
| <b>Provide Photos of:</b> | 1) Architectural Plans  | 3) CS2000™-Sealed Areas | 5) Complete Jobsite |
|                           | 2) CS2000™ Installation | 4) Unsealed Areas       | 6) Vapor Retarder   |

Remarks: \_\_\_\_\_  
\_\_\_\_\_

*The undersigned Installer and Project Supervisor certifies that the information provided herein is complete and accurate and all TDS and OBEX installation procedures for proper installation of Creteseal® CS2000™ have been followed; the undersigned are authorized representatives on behalf of their respective companies named below; the undersigned Installer is either: 1) an Authorized Creteseal Representative, 2) an OBEX Certified Installer, 3) an Installer that has been previously trained and supervised by an OBEX Technical Services Representative; and that if the Creteseal® CS2000™ installation does not comply with the Creteseal® CS2000™ TDS or OBEX installation procedures, the undersigned companies will be liable for any and all costs, damages, or repairs that ensue due to any failure to follow OBEX installation procedures. For each installation phase, all photos and OBEX Installation Records must be completed in full, received, and approved by OBEX, and all OBEX invoices paid in full, prior to the issuance of the OBEX 15-Year Warranty.*

Signature of Installer Representative: \_\_\_\_\_ Signature of Project Supervisor: \_\_\_\_\_

Name of Installer Representative: \_\_\_\_\_ Project Supervisor Name: \_\_\_\_\_

Installation Company: \_\_\_\_\_ GC/CM Company: \_\_\_\_\_

Signature Date: \_\_\_\_\_ Signature Date: \_\_\_\_\_

For Installation and Warranty requirements please refer to the Creteseal® CS2000™ TDS, the Creteseal® CS2000™ Installer Guide, or call OBEX at (844) 265-3535

Within 72 hours of the CS2000™ installation, send the completed Installation Record and project photos to OBEX  
[www.obexo.com](http://www.obexo.com) | Ph: 844-265-3535 | Fax: 503-715-0418 | Email: [techservices@obexo.com](mailto:techservices@obexo.com)