



OBEX®

Good Price, Better Service

CRETESEAL® MAX SYSTEM™

TECHNICAL DATA SHEET

ADVANTAGES

- Single Coat, Fast Cure Time
- Easy to Apply
- Shotblast / Grind to Prepare Substrate for Application
- ASTM F3010 Certified Vapor Barrier
- Can be Applied Over Fresh/10-Day Old Concrete
- Value-Engineered System: Simply Skim Cementitious Topping at a Featheredge over Flat/Level Slabs
- Odor-Free, Zero-VOC

DESCRIPTION AND USE

CreteSeal® MAX System™ is a two-component moisture mitigation system formulated to stop moisture vapor emission levels of up to 25 lbs/1,000 SF over 24 hours (MVER). CreteSeal® MAX System™ can be applied to concrete slabs with relative humidity levels up to 100% (adhesion to damp concrete). The low viscosity polymer penetrates and mechanically bonds to properly prepared concrete. CreteSeal® MAX System™ is alkali resistant and will not support biological growth (bacteria, fungus, mold or algae).

CreteSeal® MAX is applied in a single coating at 16 mils to completely encapsulate and control moisture vapor in the substrate. Coverage rates may vary depending on the porosity and condition of the concrete; typical coverage rates will be 100 SF/GL. Consult flooring manufacturer requirements and project specifications prior to placing the flooring system; typically a concrete cementitious skim topping or self leveling topping will be required over the CreteSeal® MAX System™ prior to placement of the specified flooring system.

CreteSeal® MAX System™ exceeds the performance requirements in ASTM F3010 Standard Practice for Two-Component Resin Based Membrane-Forming Moisture Mitigation Systems for Use Under Resilient Floor Coverings when applied at a thickness of 16 mils to a properly prepared substrate.

THE UNMATCHED OBEX 15-YEAR WARRANTY

CreteSeal® MAX System™ carries a 15-Year Warranty that includes all labor and materials necessary to replace or repair flooring that fails due to negative side moisture vapor emission and alkalinity migration from the concrete slab.

OBEX maintains a network of OBEX Certified Installers (OCI) throughout the United States trained in proper installation procedures, ensuring every CreteSeal® MAX System™ installation is a success and the resilient flooring



system is covered by the OBEX 15-Year Warranty. For more information on the OBEX OCI process, please contact OBEX Technical Services or refer to the OBEX Creteseal® MAX System™ Certified Installer Guide.

Creteseal® MAX System™ is compatible with the following flooring materials: Wood, VCT, LVT, Linoleum, Ceramic Tile, Carpet, Rubber and Sheet Flooring, Epoxy/Polymer/Urethane Coatings, Terrazzo (call for application instructions), and most flooring mortars and mastics.

Moisture testing in accordance with ASTM F1869 / F2170 / F710 can inform decision-making on a project. As Creteseal® MAX System™ is rated up to 100% Relative Humidity / 25 lbs. MVER, OBEX does not require moisture testing prior to installation of Creteseal® MAX System™. Following Creteseal® MAX System™ installation, prior to the installation of the flooring system, OBEX does not recommend moisture testing.

CONCRETE PREPARATION

Mechanical preparation is the preferred method of preparing concrete for coating applications. Shot-blasting or diamond grinding are recommended to achieve ICRI-Concrete Surface Profile (CSP) of 2-4. If strict ASTM F3010 compliance is desired or required on a project, the slab should be shot blasted to a CSP of 3, and hand ground in areas where shot blasting cannot reach. Perform a water droplet test to verify the concrete substrate is porous and no contaminants are present prior to installation.

Voids, cracks, and imperfections will be seen in finished coating if the concrete is not patched correctly. All cracks/joints/voids must be cleaned out and filled with an OBEX Co. approved filler per ASTM F710 standard.

OBEX Perfect Patch® is integral to the Creteseal® MAX System™ for treatment of joints/cracks/voids. After Perfect Patch® has cured, diamond grind patch if necessary.

Any substantial substrate patching performed prior to the installation of the Creteseal® MAX System™ MUST be performed with an exterior-grade cementitious or hydraulic cement product. Interior-grade cementitious or gypsum-based products are not permitted.

- Before the Creteseal® MAX System™ is applied, the concrete slab must be:
- Clean: contaminants, grease, foreign matter and construction debris removed.
 - Profiled: ICRI Concrete Surface Profile (CSP) of 2-4
 - Sound: Cracks and spalled areas repaired and ground

Please refer to OBEX Perfect Patch® TDS for treatment of cracks/joints/voids prior to the installation of Creteseal® MAX System™.



APPLICATION INSTRUCTIONS

Creteseal® MAX is packaged in 5.5 GL bulk kits, and pre-measured at proper mixing ratios for easy installation. Mix Creteseal® MAX with a drill and mixing paddle, rotating the mixing paddle in a circular pattern around the pail, at a low speed (not to exceed 300 rpm) to avoid air entrapment.

1. Premix Part A: Scrape the sides of the A pail with a straight edge (painter's tool or squeegee head) all the way around the pail twice to ensure all A material thoroughly mixes.
2. Pour Part B into Part A, letting Part B container drain for approximately 30 seconds to ensure ratios are maintained.
3. Mix the combined material for 3 minutes, rotating the drill in a circular pattern, taking care not to entrain air into the material. The material is now ready to apply.

CRETESEAL® MAX PRODUCT DATA	
Packaging	5.5 GL Bulk Kit: Part A: 3.67 GL / Part B: 1.83 GL
Color	Clear
Coverage	100 SF per mixed GL
Application Thickness	16 mils wet film
Application Temp	50-100° F
Pot Life	25 minutes
Cure Time	4-5 hours
Topcoat Installation	4-24 hours
Recoat Window	24 hours
LEED Projects	Meets USGBC LEED Criteria IEQ4



4. Apply to concrete surface by pouring out material in a ribbon. Using a straight edge tool, scrape the sides of the pail all the way around to dispense material onto the substrate. Do not flip pail over and leave on the substrate—doing so may result in inconsistent curing rates.
5. Using a squeegee, either straight, flexible (i.e. magic trowel), or 3/32 notch edge, pull coating evenly over substrate, filling in all cracks and control joints with Creteseal® MAX. Apply appropriate pressure to achieve proper coating thickness based on the substrate surface condition.
6. While wearing spiked shoes, use a 1/4" non-shedding epoxy roller to roll coating forward and backward perpendicular to squeegee direction. Do not allow puddles in low spots, cracks and divots. Brush out excess material.
7. Back-roll perpendicular to the prior direction, parallel to the squeegee direction. Back-roll evenly while completely wetting out the concrete and uniformly covering the surface to flatten all ridges.
8. Check mil thickness with a wet film gauge frequently to ensure uniform thickness is achieved.
9. Change out rollers after 45 minutes of back-rolling to maintain coating uniformity.
10. Allow to cure a minimum of 4 hours prior to installation of any primer and cement topping.
11. For resilient flooring applications, after the Creteseal® MAX System™ is installed, the primer and cementitious topcoat must be installed within 24 hours. Failure to install the primer and cementitious topcoat within 24 hours may void the 15-Year Warranty.
12. Follow all manufacturer instructions and requirements when installing the primer and cementitious topcoat for a successful installation.

SAMPLE INSTALLATION

All slab surfaces are not the same. It is recommended that a sample area be done before the start of the project if ASTM F3010 compliance is required, or to verify bond to the substrate. The test should be done on-site, using the proposed method by the assigned applicator to ensure proper adhesion.

- Install a minimum 100 SF mockup area using the same methods and equipment that will be used for the entire installation.
- Test the tensile bond strength of the installed Creteseal® MAX in accordance with ASTM D7234.
- The results must be equal to or greater than 200 psi with the failure mode in the concrete before proceeding with the installation of the entire area.

ENVIRONMENTAL INFORMATION

The Creteseal® MAX System™ is formulated to be environmentally friendly, contains no hydrocarbon solvents, and VOC levels are 0 g/L as individually packaged and as applied. Creteseal® MAX System™ has no significant odor during installation. The product can contribute to LEED certification for buildings, please refer to our Technical Bulletins or contact OBEX Co. for further details.

SAFETY AND HANDLING

Consult Creteseal® MAX System™ Safety Data Sheet for more information. Some individuals may be allergic to this product. Use of safety goggles, protective gloves and clothing when using this product is recommended. Perform work in a well-ventilated area. Do not allow product to freeze.

SEE SDS FOR A FULL LIST OF HEALTH AND SAFETY WARNINGS

CRETESEAL® MAX PERFORMANCE DATA

	Reference	Value
Adhesion	ASTM D7234	>480 psi (Concrete failure)
Compressive Strength	ASTM D695	12,000 psi
Tensile Strength	ASTM D638	5,600 psi
Tensile Elongation	ASTM D638	2.7%
Permeability (Perm)	ASTM E96 / ASTM F3010	No greater than .10
Microbial Resistance	ASTM G21	Passes Rating 1
Alkali Resistance	ASTM D1308	Resistant



740 N 5th Street
Jacksonville, OR 97530
Ph: 844-265-3535
sales@obexco.com
www.obexco.com





Creteseal® MAX System™ Installation Record



Project Name: _____

Phase _____ of _____ Job Phone: _____

Project Address _____

Onsite Contact: _____ Phone: _____

Owner: _____ Phone: _____

Owner Address: _____

Architect: _____

General Contractor: _____ Phone: _____

Phase Sq. Ft: _____ Total Project Sq. Ft: _____

Concrete Slab: Below Grade ☐ On Grade ☐ Above Grade ☐ Level No: _____

Building Number: _____ Room Numbers: _____

Slab Preparation Method: _____ CSP Profile(s): _____

Ambient Temperature: _____ Ambient R.H. %: _____

Perfect Patch® Units Used: _____ Boxes: ☐ Cartridges: ☐ 10 GL Bulk Kits: ☐

MAX A&B Kits Used: _____ MAX Coverage: _____ SF/Kit

MAX Min. Thickness: _____ mil (wet film gauge)

MAX Install Date: _____ MAX Lot/Batch Number(s): _____

Non-porous Primer Product: _____ Non-porous Primer Install Date: _____

Cement Topping Product: _____ Topping Install Date: _____

Topping Avg. Thickness: _____ Proposed Floor Covering: _____

Provide Photos of:	1) CSP Profile(s)	3) Creteseal® MAX Installation	5) Non-porous Primer Installation
	2) Perfect Patch® Installation	4) Wet Film Thickness Measurements	6) Cementitious Topping Installation

Remarks: _____

The undersigned Installer and Project Supervisor certify that the information provided herein is complete and accurate and all TDS and OBEX installation procedures for proper installation of Creteseal® MAX System™ 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, having been previously trained and supervised by an OBEX Technical Services Representative; and that if the Creteseal® MAX System™ installation does not comply with the Creteseal® MAX System™ 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® MAX System™ TDS, the Creteseal® MAX System™ Certified Installer Guide, or call OBEX at (844) 265-3535

Within 72 hours of the Creteseal® MAX System™ installation, send the completed Installation Record, and project photos to OBEX
www.obexco.com | Ph: 844-265-3535 | Fax: 503-715-0418 | Email: techservices@obexco.com