



Sections

07 07 19 16
Water Repellents

ISO-TEK™ 8555 CMU

CLEAR, BREATHABLE, VOC COMPLIANT WATER REPELLENT THAT PROTECTS AGAINST WIND-DRIVE RAIN, WATER, AND SALT IN CONCRETE MASONRY UNITS OR POROUS BLOCK.

Description

A new VOC compliant, 55%+ actives, clear, penetrating, breathable, water repellent sealer designed to penetrate deep and protect against water, salt, chlorides, water-soluble deleterious materials and freeze-thaw cycles.

Formulated specifically for surfaces made of concrete, brick, concrete masonry units and natural stone, Iso-Tek™ 8555 CMU will provide industry leading water repellent performance on porous substrates such as split-face, fluted, or ground-faced blocks. It eliminates problems caused by efflorescence, leaching, acid rain, deterioration, scaling, staining, and corrosion of steel reinforcement.

Once applied, 8555 creates an invisible, hydrophobic, surface shield that effectively aides in a dramatic reduction of chloride and water absorption. Longer service life and higher performance levels make it especially suited for applications where high level VOC products are not acceptable. Iso-Tek™ 8555 CMU is VOC compliant in all 50 states.

Actives
55%+

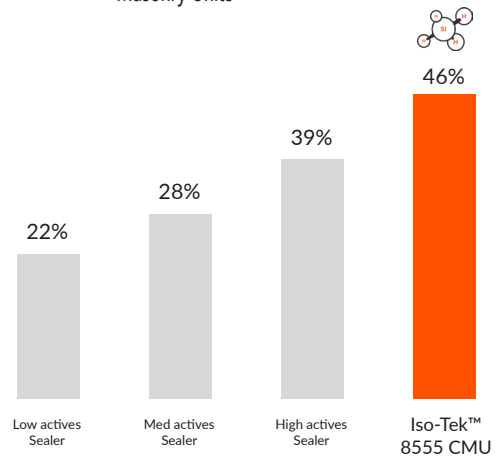
Appearance/color
Clear / Slight White

Coverage
200-600 ft²/gallon

WATER / CHLORIDE ABSORPTION

Performance Tested:

- ASTM C67 - Absorption of Water into Brick
- ASTM C642 - Absorption into Hardened Concrete
- ASTM 1653 - Water Vapor Transmission
- ASTM C140 - Absorption of Water into Concrete Masonry Units



Average Percentage Improvement vs. Control



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TECHNOLOGY // ADVANTAGES

- **Composition** - 55% actives nanotechnology driven high-performance actives with a unique oligomer for a greater build inside porous surfaces.
- **High resistance to wind-driven rain** - Penetrates into the concrete chemically reacting within the pores and capillaries creating a long-lasting hydrophobic surface that beads water.
- **Excellent Resistance to Chloride-ion Ingress** - Forms an effective chloride screen dramatically reducing chloride ion ingress preventing deicing salt / chloride damage.
- **Reduces Efflorescence** - Reduces vapor and moisture to eliminate mineral movement transmission
- **100% Breathable** - Non-film forming. Allows moisture within the concrete to escape without adverse effects to the sealer. Does not trap moisture.
- **High Resistance to Alkali Attack** - Protects concrete by limiting the long-term swelling reaction that occurs between cement paste and amorphous silica.
- **Longer Service Life** - Higher actives formula
- **Department of Transportation** - Meets or exceeds DOT specifications
- **Ultra Low VOC** - Approved for use in all 50 states.

APPLICATIONS // SUBSTRATES

Ideal for Use:

- Bridges and highway infrastructure
- Rail and metro systems
- Concrete balconies
- Reinforced concrete structures
- Traffic-bearing concrete substrates
- Concrete ramps and barriers
- Parking structures
- Plazas
- Interior / exterior concrete

Substrates:

- Concrete
- Masonry Units
- Porous Block
- Cinderblock
- Split-Face Block
- Brick and Masonry
- Stucco
- Pavers

Carrier

Solvent

VOC

<350g/L

Active Content

Silane / Siloxane

Sizes Available:

5 gallon (18.9 L), 55 gallon (208 L) drums



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APPLICATION

Surface Prep

1. New (green) concrete must be properly cured. Concrete should obtain 80% of design strength, typically achieved within 14-28 days.
2. The concrete or concrete block substrate must be structurally sound and clean of oil, grease, dirt, wax, curing compounds, efflorescence, paints, previous sealers, adhesives and other contaminants that might interfere with the penetration of the sealer. Power wash, acid etch or mechanically scarify as necessary to achieve the desired surface condition. Allow for proper dry time before application. May be applied to slightly damp surfaces, although maximum penetration is achieved on dry substrates. Do not apply if standing water is visible.
3. Surface and air temperatures must be at least 20°F during application. Surface and air temperatures should not exceed 95°F. Do not apply when temperatures are expected to fall below 20°F within 8 hours or when rain is expected within 12 hours following application. Keep material from freezing. If freezing conditions exist before application, let the substrate thaw before application. Do not apply during inclement weather or when inclement weather is expected within 12 hours.
4. Crack, patching and expansion joint sealants can be applied before or after application; always test for compatibility and adhesion.
5. Protect people, property, vehicles, window glass, roofing materials, plastic products, shrubbery, landscaping and all surfaces not set for treatment from overspray.

Application

1. Always test a small area before application to ensure desired performance, aesthetics, coverage rates and to verify application technique. Let test area dry thoroughly, 5-7 days, before inspection.
2. Stir material thoroughly before and during application. Do not dilute or alter material for purposes other than specified.
3. Apply with a roller, brush or low-pressure non-atomizing sprayer. Apply to saturation and roll or broom out any puddles until the sealer penetrates the substrate. If it starts to rain, stop treatment and cover the impregnated areas.

Dry Time

Typical drying time is 4-6 hours at 70°F and 50% relative humidity. Cooler temperatures or higher relative humidity can extend the drying time. Treated surfaces will be ready for pedestrian and vehicle traffic within 24 hours. Water repellency will continue to develop within 7 days of application.

Clean Up

Clean equipment, tools and surfaces with xylene. Unused or old material may be disposed of in a waste disposal site in accordance with local, state and federal laws.



Technical Data Sheet

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APPLICATION

Precautions/Safety

Avoid contact with skin, eyes and clothing, do not take internally. Use appropriate safety equipment during application and handling. Please refer to the safety data sheet (SDS) for additional precautionary instructions before use.

Best Performance

- Proper application is the responsibility of the user.
- Will not inhibit water penetration through unsound or cracked surfaces with defective flashing, caulking or structural waterproofing.
- Spills should not be allowed to sit for extended periods of time, clean all spills in a timely manner.
- Iso-Tek 8555 CMU should not get into direct contact with bitumen.
- Take caution with specially coated glass. Test small areas before application to ensure the product does not discolor the coating.
- Plastic windows will turn opaque when sprayed with this product
- Make sure the most current versions of technical data sheets and safety data sheets are being used.

Coverage

1 coat: 200 - 600 square feet per gallon. 2 coats: 50 - 300 square feet per gallon. Variations in texture and porosity of substrate will affect the coverage and performance of the product.

Limitations

Not intended for below-grade waterproofing. Will leave a residue on

nonporous materials such as glass, metal and painted surfaces. Asphalt-based materials such as roofing materials or plastic products, shrubbery, and plant life should be protected from overspray.

Warranty

KreteTek Industries Inc. warrants our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. Any use or application other than recommended herein is the sole responsibility of the user. Listed physical properties are typical and should not be construed as specifications. No warranty is made, expressed or implied, regarding such other information, the data on which it is based or the results you will obtain from its use. We shall have no liability for incidental or consequential damages, direct or indirect. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products.

Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sales of our products. Our products contain chemicals that may cause serious physical injury. Before using, read the Safety Data Sheet and follow the precautions to prevent bodily harm.



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Purchaser must determine the suitability of the products for the intended use and assumes all risks and liabilities in connection therewith. This information and all further technical advise are based on KreteTek Industries Inc. present knowledge and experience. However, KreteTek Industries Inc. assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights, nor shall any legal relationship be created by or arise from the provision of such information and advice. KreteTek Industries Inc. reserves the right to make any changes according to technological progress or further developments. The Purchaser of the Product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with a full application of the product(s). Performance of the product described herein should be verified by testing and carried out by qualified experts.

For professional use only.

Last revised 7/21

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