

Sections

09 09 97 00
Special Coatings

CRYLI-TEK® 5505

HIGH PERFORMANCE, CLEAR, SOLVENT BASED METHYL-METHACRYLATE SEALER THAT ENHANCES PROTECTS AND PROVIDES A CLEAR HIGH GLOSS FINISH .

Description

A new high performance nanotechnology driven clear high gloss solvent based low VOC blend of 100% methyl and ethyl methacrylate polymers.

Cryli-Tek® 5505 enhances and darkens the concrete surface providing a beautiful and durable high gloss finish. It has an extremely fast set time and unsurpassed stain resistance. The treated surfaces will resist chipping, flaking, delamination and breakdown with UV light exposure.

Used as a superior and specialized compound for sealing concrete, exposed aggregate, stamped/stenciled

concrete and other decorative masonry surfaces.

Formulated for decorative concrete applications where a glossier one-coat spray or roller applied finish is desired.

Appearance/color

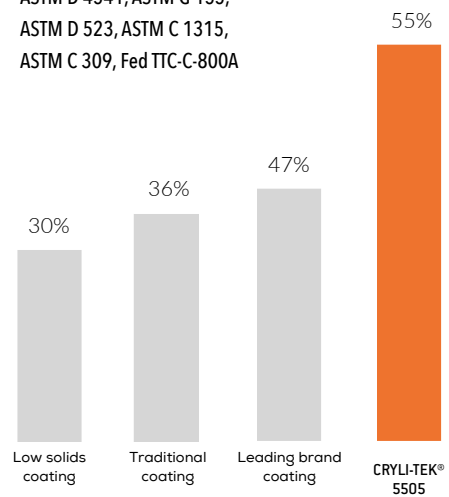
Clear

Coverage

Up to 300 ft²/gallon

ULTRAVIOLET (UV) EXPOSURE AND WEATHERING

Meets the requirements of:
ASTM D 3359, ASTM D 3363,
ASTM D 4541, ASTM G 155,
ASTM D 523, ASTM C 1315,
ASTM C 309, Fed TTC-C-800A



Percentage Improvement vs. Control



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Technical Data Sheet

TECHNOLOGY // ADVANTAGES

- **Composition** - Nanotechnology driven high-performance solvent based methyl-methacrylate
- **Reduces surface absorption and stops dusting** of concrete for easier cleaning and maintenance
- **Non-yellowing high gloss** sealer provides protection and improved appearance to concrete
- **Provides a clear, tough film** which improves abrasion and stain resistance
- **Effectively seals** against the ingress of water
- **Extremely resistant to weathering effects** and provides a uniform and easy to clean surface
- **Aesthetically enhances** and protects
- **Inter-coat adhesion** allows for easy repair and simple re-coating after cleaning
- **Wind erosion** and general exposure resistant
- **Resistance to carbonation** and a wide range of weak acids and alkaline solutions
- **Resists organic growth**, mold, mildew and dirt pick up
- **UV protection** and resistant to ultra-violet radiation, will not yellow or fade
- **Superior chemical resistance** compared to standard acrylic or styrene acrylic sealers.

TYPICAL PROPERTIES

Appearance - Clear liquid

Packaging - 1 gallon (3.78 L), 5 gallon (18.9 L) pails and 55 gallon (189.3 L) drums

VOC'S - <400g/L maximum

Percent Solids - 34%

Flash Point - 110°F

Drying Time - Tack Free: 1-2 hours
Recoat: 2-4 hours
Full Cure: 24 hours

APPLICATIONS

- Interior // exterior concrete
- Horizontal // vertical substrates

Substrates

- Concrete
 - Brick and Masonry
 - Exposed aggregate
 - Pavers
-



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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 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. If acid was used to clean the concrete, neutralize the surface and rinse with water prior to application. Lightly acid etch unsealed smooth trowel finished concrete before sealing. Allow for proper dry time before application. The surface-zone moisture content of the concrete should not exceed 4% wt. Do not apply if standing water is visible.
3. Surface and air temperatures must be at least 40°F during application. Surface and air temperatures should not exceed 90°F. Do not apply when temperatures are expected to fall below 32°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. Joints to receive joint sealant should be masked or taped off prior to applying.
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. Product should be conditioned to a minimum of 50°F prior to application. Avoid windy days and direct sunlight.
2. One continuous, thin, uniform coat is needed to ensure complete

coverage. Apply with a sprayer, good quality roller or brush. Too thick of an application will result in entrapment and subsequent product failure. If it starts to rain, stop treatment and cover the treated areas. Spray Apply with a low pressure, solvent resistant, airless, sprayer equipped with a fan nozzle orifice of 0.030 to 0.035" at 1 gpm. The optimum spray pattern is an 8" to 12" fan. Hold sprayer tip 8" to 12" from the surface of the concrete. Apply uniformly leaving no pin-holes or gaps. Do not allow the material to puddle. Roller Apply: Use a short nap (1/4" max) solvent resistant roller. Apply a continuous film leaving no pinholes or gaps. Do not allow material to puddle. Do not apply in excess of 350 square feet per gallon per coat.

3. Unsealed concrete may require optional second coat. If an additional coat is desired wait at least 1 hour and ensure the first coat has completely dried before applying a second coat. Press on the coating with your thumb to verify that no fingerprint impression is left. If no impression is created, then the recoat can be started. Always remember that colder temperatures will require more cure time for the product before recoating can commence. We do not recommend any coatings be placed over this product except multiple coats of this product itself.

Dry Time

Typical tack-free time is 1-2 hours at 70°F and 50% relative humidity. Recoat timeframe is 2-4 hours. Cooler temperatures or higher relative humidity can extend the drying time. Treated surfaces will be ready for pedestrian and vehicle traffic within 24 hours.

Clean Up

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



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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.
- Make sure the most current versions of technical data sheets and safety data sheets are being used.
- Do not use in immersion service or constant chemical exposure areas.
- Do not apply to joints or channels scheduled to receive elastomeric caulks or to surfaces scheduled to receive concrete overlays, toppings, or thin set mortars.
- Extremely porous substrates such as pavers may require additional coats to achieve a slight enhancement.

Coverage

1 coat: Up to 300 square feet per gallon. Variations in texture and porosity of substrate will affect the coverage and performance of the product.

KreteTek Industries Inc.

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Customer Service and Technical Support

1-855-KreteTek (1-855-573-8383)

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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For professional use only.

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