



## Architectural & Protective Coatings

# COOLWALL® with KYNAR® IR Finish

### DESCRIPTION

The COOLWALL® with KYNAR® system is an infrared heat-reflective water based exterior coating that incorporates industry-leading KYNAR® Aquatec® technology. This highly breathable system has been formulated to have superior salt spray, moisture, mold, mildew, and dirt resistant properties. Unlike conventional paints that rely only on mildewcides that leach out over time, COOLWALL® with KYNAR® combines mildewcides with the mildew resistant properties that are inherent in the KYNAR® resin and will last the life of the coating. COOLWALL® with KYNAR® uses infrared heat reflective

properties to provide cooler surface temperatures, enhanced durability, and superior fade resistance. The high reflectivity can provide cooling cost energy savings of up to 21.9%\*. COOLWALL® with KYNAR® is a low VOC, green building product. Available in satin finish.

### FEATURES

- Superior gloss retention and resistance to mold, mildew and dirt pickup help maintain reflectivity for life of coating
- Resists salt spray and moisture.
- Highly breathable.

### BENEFITS

- Long lasting colors
- Outstanding gloss retention
- Long term protection
- Heat reflective
- Easy to clean

### RECOMMENDED OVER

COOLWALL® with KYNAR® is recommended over HI-BUILD Primer, HI-BUILD TEXTURED Primer, and TEX-BOND® Primer. Also may be used over other manufacturer approved substrates. Only for use on vertical surfaces.

### APPLICATION

**Installation:** COOLWALL® with KYNAR® can be applied by brush, roller, or commercial grade airless. Commercial grade airless tip size .017 to .019..

**Surface Preparation:** All surfaces must be sound, clean and dry prior to application of COOLWALL® with KYNAR®. All loose, flaking or oxidized paint shall be removed from surface by sand blasting, water blasting, wire brushing or scraping. Large cracks, holes and voids must be filled in with cement patching compound which utilizes TEX·COTE®'s Stucco Bonding Agent. Texture of patch shall match existing surface. Cracks less than 1/32" shall be filled with FLEX-PATCH® compound. Cracks greater than 1/32" should be patched with cementitious patching compound.

All surfaces must be primed with HI-BUILD OR HI-BUILD TEXTURED Primer, or other manufacturer approved primers for non-masonry surfaces. See technical data for HI-BUILD Primer and HI-BUILD TEXTURED Primer. METAL-PRIME™ Primer is recommended over bare galvanized aluminum, galvalume, or cold rolled steel surfaces. All rust should

be removed by sandblasting or other mechanical means. Plastics such as PVC and vinyl should be primed with TEX-BOND® Primer. See technical data for more information

**Application Rate:** Coverage rates will be between 175-225 square feet per gallon (4.9 to 6.0 square meters/liter). This product may be applied in a single coat over the primer as long as a continuous, pin-hole free film is achieved. Over smooth, slick surfaces, two coats are recommended at 350-450 square feet per gallon to achieve the best finish. Textured or porous surfaces may require additional material. Some deep tone colors may require more product be applied in order to have a completely opaque film. An actual mock-up should be done prior to application to determine proper square footage per gallon for the color chosen. Apply by spray/back-rolling recommended depending on the texture and porosity of the substrate.

**Application:** Over a dry, clean, properly prepared surface, apply the COOLWALL® with KYNAR® at the specified application rate. Application shall be at uniform film thickness over the entire

wall. A wet edge shall be maintained during spraying (brushing or rolling) at all times. To prevent lap marks, avoid starting and stopping midway on walls. On large areas, two (2) people spraying simultaneously are recommended to avoid lap marks and spray patterns. If rolling on COOLWALL® with KYNAR®, with fully loaded roller, apply in vertical strokes initially, then cross roll for even film, ending with vertical strokes. To prevent lap marks proceed as above and continue to a "natural break" such as panel edge, seam or corner.

**Drying/Curing Times:** To touch: 2 hrs. approximately. Hardness: 24 hrs. minimum. Note: After 24 hours, residual matters in film will continue to cure with additional days of drying. Times are based on ideal weather conditions.

**Clean Up:** Water

**TECHNICAL DATA**

**COOLWALL® with KYNAR® Applicable Standards American Society for Testing Materials (ASTM)**

Test Method	Property	Result
ASTM D2565-99-T-1, C#4	Accelerated Weathering	5000 Hours—Passed
ASTM B117	Salt Spray Resistance	100 Hours—Passed
ASTM D714	Blistering Resistance	100 Hours—Passed
ASTM D610	Rusting Resistance	100 Hours—Passed
ASTM D968	Abrasion Resistance	825 liters falling sand
ASTM D3273/ D3274	Mold & Mildew Resistance	28 Days—Rating 10, no growth
ASTM D6940	Wind Driven Rain Resistance	Passed
ASTMC67/D2794	Freeze-Thaw Resistance	50 cycles—Passed
ASTM D4585	Humidity Resistance	100 Hours—Passed
ASTME96	Permeability	8.5 Perms (with Primer)
ASTM C1305	Crack Bridging	No cracks, separation or loss of film
ASTM E-84	Surface Burning of Building Materials	Meets Class A Flame Spread Index
ASTM E-1795	Standard for Lead-Base Paint Encapsulation	Passed all tests for interior and exterior use
ASTM D4803-97	Total Solar Reflectance	Surface wall temperature reduced up to 40 degrees Fahrenheit depending on color and geographical location as compared to commercial acrylic paint.

<p><b>Physical Properties</b> Water based acrylic formula</p> <table border="0"> <thead> <tr> <th>Test Property</th> <th>Ranges</th> </tr> </thead> <tbody> <tr> <td>Solids by Weight (Satin)</td> <td>40-49%</td> </tr> <tr> <td>Solids by Weight (Flat)</td> <td>49-52%</td> </tr> <tr> <td>Solids by Volume</td> <td>31-34%</td> </tr> <tr> <td>Weight per Gallon</td> <td>9.4-10.8 lbs.</td> </tr> <tr> <td>Gloss:</td> <td>10-20 @ 60°</td> </tr> <tr> <td>Moisture Vapor Permeability</td> <td>10 Perms (with Primer)</td> </tr> <tr> <td>Resin base</td> <td>Acrylic/ Kynar (PVDF)</td> </tr> <tr> <td>VOC</td> <td>&lt; 50 grams/liter</td> </tr> <tr> <td>Wet Film Thickness</td> <td>7—9 mils</td> </tr> <tr> <td>Dry Film Thickness</td> <td>3—4 mils</td> </tr> </tbody> </table> <p>*Specific properties based on base used for chosen color and STD or 1113 compliant formulation</p>	Test Property	Ranges	Solids by Weight (Satin)	40-49%	Solids by Weight (Flat)	49-52%	Solids by Volume	31-34%	Weight per Gallon	9.4-10.8 lbs.	Gloss:	10-20 @ 60°	Moisture Vapor Permeability	10 Perms (with Primer)	Resin base	Acrylic/ Kynar (PVDF)	VOC	< 50 grams/liter	Wet Film Thickness	7—9 mils	Dry Film Thickness	3—4 mils	<p><b>Total Solar Reflectance (TSR) Color Ranges by %</b></p> <table border="0"> <tr> <td>Light Colors</td> <td>25% - 35%</td> </tr> <tr> <td>Medium Colors</td> <td>55% - 65%</td> </tr> <tr> <td>Dark Colors</td> <td>100% or greater</td> </tr> </table> <p>Percentage increased as compared to conventional acrylic paints.</p> <p>Percentage of cooling costs and surface temperature reductions will vary based on color chosen, geographical location, climate condition, and substrate type. For more information, visit <a href="http://www.texcote.com">www.texcote.com</a></p>	Light Colors	25% - 35%	Medium Colors	55% - 65%	Dark Colors	100% or greater
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**BEST PERFORMANCE**

- Do not apply material when snow, rain, or freezing conditions are imminent. Wet conditions combined with cold temperatures may cause improper curing of product.
- Application temperature shall be between 45°F rising to 100°F ( 7°C to 38° C ).

- Do not apply if rain is imminent.
- AVOID FREEZING.
- Surfaces shall be clean, dry and properly prepared.
- Formulated for use over HI-BUILD Primer, HI-BUILD TEXTURED Primer, RE-COTE™ Primer, TEX-BOND® Primer, or METAL-PRIME™ Primer.
- Products shall be handled and stored as indicated herein.

- Roof & parapet top caps shall be installed and sealed against water penetration before application.
- TEX-COTE LLC does not promote or recommend coating the sealant joints, nor is the sealant compound an approved substance.

**ORDER INFORMATION**

**Packaging:**

Available in 1 and 5 gallon containers.

**Colors:**

Over 570 heat reflective colors. Deep tones colors incur an additional charge.

**Shelf Life:**

12 month shelf life, based on the following:

- Containers stored upright and airtight in a cool, dry place at temperature between 45°F rising to 100°F ( 7°C—38° C ). AVOID FREEZING.

- Skins formed on surface of product shall be removed prior to mixing, moving or using.

**SAFETY**

Contains hydrocarbon solvents. Use with adequate ventilation. Do not breathe spray mist or dust. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.

**First Aid:**

If you experience difficulty in breathing, leave area to obtain fresh air. If difficulty continues, seek medical attention. In case of eye contact, flush immediately with large quantities of water for at least 15 minutes. Seek medical attention if blurring or redness continues.

**VOC COMPLIANCE**

All TEX•COTE® products comply with federal and state Volatile Organic Compound (VOC) rules and regulations. Please contact your nearest TEX-COTE LLC office for assistance on the local VOC compliance in the area of intended

**WARRANTY**

Upon completion of application of coating in accordance with the manufacturer 's recommendations, TEX-COTE LLC will extend its limited commercial warranty for product replacement as a result of defect in the material. The manufacturer must be notified prior to the application of the coating and the application must be in compliance with the manufacturer 's recommendations for installation. TEX-COTE LLC shall have no obligation to contribute to or otherwise participate in labor or cost associated with effecting repairs. Specimen copy of material warranty is available upon request.



**CORPORATE OFFICES & EASTERN PLANT**  
 2422 East 15th Street Panama City, Florida 32405  
 Tel: (850) 769-0347 Fax: (850) 913-8619

<b>COMMERCIAL SALES OFFICE</b> 4101 Ravenswood Road, Suite 218 Ft. Lauderdale, Florida 33312 Tel: (954) 581-0771 Fax: (954) 581-9516	<b>WESTERN FACILITY</b> 417 E. Weber Avenue Compton, California 90222 Tel: (323) 233-3111 Fax: (310) 438-2873
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