

Milliken Infrastructure

RenewWrap™ Top Coat E84

Intumescent fire retardant top coat



BRIDGES + ROADWAYS



BUILDINGS + PARKING FACILITIES



OIL, GAS + INDUSTRIAL

RenewWrap™ Top Coat E84 is premium quality, water based, nontoxic, intumescent fire-retardant coating used to achieve a Class 1 and Class A flame-spread classification and smoke-density in accordance with the IBC.

Benefits

- Compatible with RenewWrap™ FRP strengthening systems
- Easy to use and apply
- May be brushed, rolled or sprayed like latex paint
- Cost efficient
- High performance
- Eco-friendly
- Single component
- Thin, low profile finish
- May be used in exterior applications with an additional acrylic top coat

Properties

Color	White	
Finish/Sheen	Flat	
VOC	< 36 g/liter	ASTM D3960
% Volume Solids	67%	
Viscosity	115 @ 77°F (25 °C)	ASTM D562
Specify Gravity	1.27 ± 0.05	ASTM D1475
Thinning	Not recommended	
Net Coverage Rate ¹	53 SF/gallon	

1) Estimated net coverage rate to achieve a total dry film thickness of 20 mils is 53 SF/gallon per coat excluding waste.

2) To achieve Class 1 and Class A flame-spread classification and smoke-density in accordance with the IBC requires a dry film thickness of 20 mils that can be achieved with two 15 mil coats measured using a wet film thickness gauge.

Packaging

5-gallon pails
(60 lbs)

Storage and Shelf Life

RenewWrap™ Top Coat E84 cannot be exposed to freezing temperatures. Store in a cool, dry place at 50-85 °F (4-32 °C) away from flame or other hazards. Shelf life is 24 months when properly stored in unopened containers.

Caution

Consult Safety Data Sheets (SDS) and always use appropriate personal protective equipment (PPE) when handling.

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Application

SURFACE PREPARATION

All surfaces to be coated must be clean, cured, firm, dry and free of dust, dirt, oil, wax, grease, mildew, or any other contamination or condition that would adversely affect the performance of the coating. When coating RenewWrap FRP strengthening systems, lightly abrade the cured surface with sand paper and wipe clean with acetone. Allow to dry to before applying RenewWrap Top Coat E84.

APPLICATION AND THICKNESS

RenewWrap Top Coat E84 is a water-based product and not a typical paint used for aesthetic purposes. To achieve a Class 1 and Class A flame-spread classification and smoke-density the material must be applied in two coats to achieve a total minimum dry film thickness of 20 mils. Each coating should be about 15 mils thick measured using a wet film thickness gauge to achieve the desired dry film thickness. Apply second coat after first coat is dry to the touch. To reduce drying time, use fans to circulate air.

Do not apply if temperature is below 50 °F. Do not thin or strain RenewWrap Top Coat E84. Use of airless sprayer is recommended (use of a dedicated spray line is required) but may also be applied by brush or roller. For brush application, a fully loaded brush should be used. A laying on technique will reduce the brush marking. A short nap roller can be used but this may result in a slight textured finish.

RECOMMEND APPLICATION EQUIPMENT

Spray-Airless: Capable of a pressure range of 780 to 3300 psi

Tip: .017 to .023 heavy duty 4" to 12" fan width recommended (dependent on application)

Roller: Use a 1 1/4" nap synthetic cover for heavy application (or others depending on finish).

Brush: Use a nylon/polyester brush

CLEAN UP AND SAFETY

Wash brushes, rollers, spray guns & pumps and other painting tools in COLD clean water promptly after painting. Clean and remove any dried product with the use of Goof Off. Use all products completely or dispose of properly. Local disposal requirements vary; consult your sanitation department or state-designated agency for more information on disposal options. Use only with adequate ventilation. Do not breathe spray mist or sanding dust. Avoid contact with eyes and prolonged or repeated contact with skin. Wear eye protection and or gloves during application or sanding. A dust/particulate respirator approved by NIOSH should be worn when sanding or spraying. Close container after each use.

Before using any Milliken Infrastructure Solutions, LLC product, the user must review the most recent version of the product's technical data sheet, material safety data sheet and other applicable documents, available at www.strengtheningsolutions.milliken.com or by calling 1-855-655-6750. LIMITED WARRANTY: Milliken Infrastructure Solutions, LLC is very proud of our innovative RenewWrap™ products (the "Products") and our superior customer service. We hereby warrant to the original purchaser that the Products meet Milliken's standard specifications at the time of delivery from us. If the Products are found to be defective because they do not meet this Warranty, then we will as the sole remedy either (at our option) refund the purchase price for those Products or provide replacement Products (in either case, not including shipping, installation or any other cost). Naturally, we are not responsible or liable for degradation, damage, liability or defect in, or related to, the Products caused by improper storage, use, installation or maintenance, any other party's representations, warranties, actions, or omissions, or acts of God. WE MAKE NO REPRESENTATION OR WARRANTY BEYOND THE EXPLICIT STATEMENTS CONTAINED IN THIS WARRANTY, AND ALL OTHER EXPRESS AND IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, INFRINGEMENT, OR ANY WARRANTIES BASED UPON SAMPLES, MODELS, OR SPECIFICATIONS, ARE HEREBY EXPRESSLY DISCLAIMED. NOTWITHSTANDING ANYTHING TO THE CONTRARY, IN NO EVENT SHALL WE BE LIABLE TO THE ORIGINAL PURCHASER OR ANYONE ELSE FOR ANY CONSEQUENTIAL, INDIRECT, SPECIAL, OR EXEMPLARY (OR ANY SIMILAR TYPE OF) DAMAGES RELATED TO THE PRODUCTS. As each customer's use of our Products and situation may be different, information we provide, including without limitation, use or installation suggestions, test results, samples, etc. is provided in good faith but without warranty and without accepting any responsibility or liability. Each customer must test and be responsible for its own specific use, installation, application, etc. All sales are exclusively subject to our standard terms of sale posted at www.milliken.com/terms (all additional/different terms are rejected) unless explicitly agreed otherwise in a signed writing. This Warranty is governed by the laws of the United States and the State of South Carolina, U.S.A. (without giving effect to its conflict of law principles), and any party desiring to take action under this Warranty hereby submits to the exclusive jurisdiction of the courts in such jurisdiction and waive any inconvenient forum claims related thereto. In the unlikely event that you have a warranty issue, please contact your distributor or sales representative to discuss and resolve the matter in accordance with this Warranty.

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