

# RENEWWRAP®

## E84 PROTECTIVE TOP COAT



STRUCTURAL STRENGTHENING

## Intumescent Fire Retardant Top Coat

**RenewWrap E84 Protective Top Coat** is a premium quality, water based, nontoxic, intumescent fire-retardant coating used to achieve Class 1 and Class A flame spread classification and smoke-density in accordance with the IBC when subjected to *ASTM E84-18a: Standard Test Method for Surface Burning Characteristics of Building Materials*.

This product is part of the tested assembly which achieved a four-hour fire rating when subjected to *ASTM E119-12a: Fire Tests of Building Construction and Materials* full-scale fire testing.

### BENEFIT

- ◆ 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	<36g/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 <sup>1</sup>	53 SF/gallon	

Notes:

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.

### STORAGE AND SHELF LIFE

RenewWrap E84 Top Coat 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.

### PACKAGING

5-gallon pails  
(60 lbs)



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### 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 E84 Protective Top Coat.

### APPLICATION AND THICKNESS

RenewWrap E84 Protective Top Coat 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 E84 Protective Top Coat. 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.



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