

RENEWWRAP®

ESR Saturant



STRUCTURAL STRENGTHENING

2-Part Epoxy Impregnation Resin, Primer and Saturant

RenewWrap ESR Saturant is a two-component, 100% solids high strength, high modulus, moisture insensitive epoxy resin for impregnating RenewWrap ESR reinforcing fabrics. RenewWrap ESR Saturant is supplied in two parts.

TYPICAL APPLICATIONS

- ◆Bridges: Columns, Beams, Slabs, Piles, Pier Caps
- ◆Buildings: Commercial, Industrial, Residential
- ◆Piers/Wharfs
- ◆Parking garages
- ◆Tunnels
- ◆Pipes

TYPICAL USES

- ◆Structural Strengthening Repair
- ◆Seismic Retrofitting
- ◆Structural Load Upgrading
- ◆Correcting Design or Build Errors
- ◆Damage Repair
- ◆Blast Mitigation

RELEVANT INFORMATION

- ◆Substrate / ambient temperature must be greater than 40 °F (4 °C) for installation
- ◆Do not thin with solvents
- ◆Cured material will act as a vapor barrier
- ◆Avoid applying material when the temperature is rapidly rising to minimize the effects of moisture vapor transmission

STORAGE AND SHELF LIFE

Store in a cool, dry place at 40-90 °F (4-32 °C) away from flame or other hazards. Shelf life is 24 months when properly stored in unopened packaging.

BENEFITS

- RenewWrap ESR Saturant is part of the approved Composite System under ICC-ES Certificate ESR #3663
- Medium viscosity enabling vertical and overhead applications
- Simple 2:1 mix ratio (by volume)
- VOC compliant, low odor
- 100% solvent free



CAUTION

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

ENGINEERING SUPPORT

GeoTree Solutions provides no-cost, pre-bid, engineering support. Contact your sales representative for more information



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Material Properties

PROPERTY	VALUE
Mix Ratio	2:1 (by volume)
Colour	Part A: Clear Part B: Clear Mixed: Clear
Pot Life	@ 50°F (10°C): 180 min. @ 77°F (25°C): 60 min. @ 90°F (32°C): 20 min.
Cure Time	72 hours at 70°F (21°C)
Coverage Rates/Ply	50-60 SF/gallon (CF335) 40-50 SF/gallon (CF600) 30-40 SF/gallon (GF875)

Packaging

COMPONENT	QUANTITY	PACKAGE
Part A	52-gallon 5-gallon	55-gal drum 5-gal pail
Part B	52-gallon 2.5-gallon	55-gal drum 2.5-gal pail
Kit	7.5-gallon kit 15-gallon kit 156-gallon kit	

Cured Epoxy Properties

PROPERTY	TEST METHOD	VALUE
Flexural Strength	ASTM D790	8 ksi (55 MPa)
Flexural Modulus	ASTM D790	300 ksi (2050 MPa)
Flexural Elongation at Break	ASTM D790	2%
Compressive Strength	ASTM D695	11.0 ksi (75 MPa)
Compressive Modulus	ASTM D695	400 ksi (2750 MPa)
Specific Gravity		1.1
Glass Transition Temperature ¹	ASTM E1640	180°F (82°C)
Tensile Strength	ASTM D638	8.6 ksi (60 MPa)
Tensile Modulus	ASTM D368	200 ksi (1400 MPa)

Notes:

1. Cure schedule for data sheet properties is 48 hrs post-cure at 140°F (60°C), test conditions are 73°F (23°C).



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