

OMEGAWRAP[®] EG SYSTEM //



The OmegaWrap EG system is a hoop dominant E-glass solution designed for general purpose pipe repair. This system is available as a kit and will include mixing supplies, E-glass reinforcing fabric, load transfer material and an epoxy saturant. Our load transfer material is mixed on-site and is used to fill voids prior to wrapping. The epoxy saturant is used to wet out the fabric on-site and does not require any specialized tools.

Applications:

- Cracks after buffing
- External corrosion and pitting
- Dents, gouges or scratches
- Welds



Mechanical Properties

PROPERTY	DETAILS	TEST STANDARD	TEST RESULTS
Tensile Strength	Hoop	ASTM D3039	91,300 psi
Ultimate Tensile Strain			2.30 %
Modulus			4,380,000 psi
Tensile Strength	Axial	ASTM D3039	13,350 psi
Ultimate Tensile Strain			1.75%
Modulus			1,280,000 psi
Poisson's Ratio	Laminate	ASTM D3039	0.235
Hardness (Barcol)		ASTM D2583	55
Coefficient of Thermal Expansion	Hoop	ASTM D5335	6.44×10^{-6} in/in/°F
	Axial		8.83×10^{-6} in/in/°F
Glass Transition Temperature	Epoxy Saturant	ASTM E1356	152 °F
	Load Transfer Material		266 °F
Lap Shear Strength	Epoxy Saturant on Steel	ASTM D5865	1,703 psi
Compressive Modulus	Load Transfer Material	ASTM D695	6,930 psi
Compressive Strength			247,000 psi
Cathodic Disbondment	30 Day Test, Average Radius	ASTM G95	Completed
Spool Survival	P _{test} = 2,824 psig	ASME PCC-2	Pass
Long-Term Design Strength	P _{test} = 3,690psig	ASME PCC-2	32,550 psi

Application Properties

PROPERTY	VALUE
Supplied Width	12 in
Fabric Orientation	Biaxial, hoop dominant
Cured Ply Thickness	0.042 in
Maximum Service Temperature with Ambient Cure	116 °F
Shelf Life	2 years
Epoxy Saturant Working Time	60 mins
Load Transfer Material Working Time	20 mins
Application Conditions	50 °F up to 116 °F

