

LOCTITE RENEWWRAP DWF

(Drinking Water Finish)

DESCRIPTION

The LOCTITE RenewWrap DWF Epoxy is a two-component epoxy coating. The LOCTITE RenewWrap DWF Epoxy is an NSF/ANSI Standard 61 listed product for drinking water systems as a standalone coating or finish over the LOCTITE RenewWrap systems. It provides a long working time for application, with no offensive odor.

USE

The LOCTITE RenewWrap DWF Epoxy is an ambient-cure coating. LOCTITE RenewWrap DWF Epoxy may be used as a primer, tack coat or finish depending on project requirements.

ADVANTAGES

- ICC-ES ESR-3663 listed product
- NSF/ANSI Standard 61 listed product
- Good high and low temperature properties
- 100% solids, solvent-free
- Long working time
- High elongation
- Ambient cure

PACKAGING

Pre-measured 5-gallon units with a combined material volume of 3.7 gallons.

EPOXY MIX RATIO

100A : 32.4B by weight
100A : 47.0B by volume

COVERAGE

160 sq.ft. per gallon at 10 mils
Number of coats: 2
Recoat time and temperature: 24 hours at 72°F

SHELF LIFE

Epoxy - two years in original, unopened and properly stored containers
Fabric - 10 years in proper storage conditions

STORAGE CONDITIONS

Store epoxy at 60°F to 100°F (15°C to 38°C). Resin is susceptible to crystallization at temperatures below 50°F. If crystallized, epoxy must be reheated until clear. Store fabric rolls flat, not on ends, and at temperatures below 100°F (38°C). Avoid moisture and water contamination.

Epoxy Material Properties

Material properties are based on standard laboratory conditions (23°C, 50 percent relative humidity).

Property	Typical Test Value	
Net Weight	Component A	26.9 lbs. (2.6 gal)
	Component B	8.7 lbs. (1.1 gal)
	Mixed	35.6 lbs. (3.7 gal)
Color	Component A	white paste
	Component B	clear to yellow
	Mixed	white paste
Viscosity	Component A	N/A
	Component B	11 cps
	Mixed	N/A
Density (D792) Pounds/ Gallon	Component A	10.3 (1.23 kg/L)
	Component B	7.9 (0.95 kg/L)
	Mixed	9.6 (1.15 kg/L)
Pot Life (Working Time)	Mixed	3 to 4 hours
Gel Time (Time to Gelation)	Mixed	10 hours

Epoxy Material Properties

Cure schedule: 72 hour post-cure at 140°F (60°C)¹

Property ¹	ASTM Method	Typical Test Value
Glass Transition Temperature, T _g	D4065 E1356	180°F (82°C)
Tensile Strength		7,350 psi (50.6 MPa)
Tensile Modulus	D638 Type 1	322,000 psi (2.20 GPa)
Elongation		3.0%
Compressive Strength	D1771	7,700 psi (53.0 MPa)
Compressive Modulus	D1771	114,000 psi (786 MPa)
Flexural Strength	D1771	12,500 psi (86.2 MPa)
Flexural Modulus	D1771	316,000 psi (2.18 GPa)
Shore D Hardness	D1771	87±3
Water Absorption (24 hours) Water Absorption (13 weeks)	D1771	0.33% 1.98%
Adhesion Strength ² > Concrete (ASTM > D7522) Steel > Epoxy	D1771	> 400 psi (concrete failure typ.) > 1200 psi > 1200 psi
Biological Growth Support Potential (BGSP)		Neutral/Inhibitory to Growth

¹ Testing temperature: 73°F (23°C).

² Adhesion strength dependent on surface preparation and substrate thickness.
Cure schedule: 7 days at 73°F (23°C).

HOW TO USE THE LOCTITE RENEWWRAP DWF EPOXY

INSTALLATION

The LOCTITE RenewWrap system is to be installed by Henkel trained and certified applicators.

SURFACE PREPARATION

The required surface preparation is dependent on the type of element being strengthened. In general, the surface must be clean, dry and free of protrusions or cavities to prevent voids behind the LOCTITE RenewWrap system. Concrete and Masonry surfaces require a minimum CSP-2 profile to prepare for bonding, achieved by light sandblast, grinding or other approved methods per ICRI 310.2R-2013. Steel surfaces shall be prepared to near white metal per NACE/SSPC SP10. Coating can be applied over the LOCTITE RenewWrap systems immediately or within 72 hours of application without any surface preparation. Otherwise, lightly abrade composite surface prior to application. Henkel engineering staff will provide the proper specifications and details based on project requirements.

MIXING LOCTITE RenewWrap DWF EPOXY

For pre-measured units in 5-gallon containers, pour the contents of component B into the component A container. Mix thoroughly with a low speed mixer at 400 to 600 RPM until uniformly blended. Ensure epoxy is transferred between the A and B buckets. Resin may be heated to achieve desired viscosity (i.e. radiant heating, drum heaters, water bath). DO NOT THIN. Solvents will prevent proper cure.

THICKENED LOCTITE RenewWrap DWF EPOXY

Use Cab-o-sil TS-720 by Cabot Corp. or similar. Use up to 1.1 lbs. fumed silica per kit or 3 percent by weight. Site conditions may affect the amount of fumed silica required to achieve desired thickness. Do not exceed 3 percent by weight.

APPLICATION

LOCTITE RenewWrap DWF Epoxy is applied by brush or roller. Please refer to Henkel's NSF Listing for the NSF 61 listed application method (www.NSF.org).

LIMITATIONS

Recommended substrate temperature range is 50°F to 100°F (10°C to 38°C). All coating applications to be performed at a minimum of 5.4°F above the dew point. Maintain conditions for the first 48 hours of cure. Temperatures below 50°F will significantly increase the viscosity of the mixed product. Higher viscosity will reduce coating penetration, introduce additional air into the system, and extend the cure times beyond 48 hours. DO NOT THIN. Solvents will prevent proper cure.

CAUTION!

CLEANUP

Collect with absorbent material. Dispose in accordance with local disposal regulations. Uncured material can be removed with approved solvent. Cured materials must be removed mechanically.

HAZARDS

Consult the Safety Data Sheets (SDS) for associated hazards. SDS will be supplied upon request. Component A is a marine pollutant. Component B is a corrosive material.

Consult Safety Data Sheet (SDS) For More Information. For Industrial Use Only.

Statement of Responsibility: The technical information and application advice in this publication is based on the present state of our best scientific and practical knowledge. As the nature of the information herein is general, no assumption can be made as to the product's suitability for a particular use or application, and no warranty as to its accuracy, reliability or completeness, either expressed or implied, is given other than those required by State legislation. The owner, his representative or the contractor is responsible for checking the suitability of products for their intended use. Field service, where provided, does not constitute supervisory responsibility. Suggestions made by the Henkel, either verbally or in writing, may be followed, modified or rejected by the owner, engineer or contractor since they, and not the Henkel, are responsible for carrying out procedure appropriate to a specific application.