

Technical Data Sheet



The Willamette Valley
Company LLC

www.wilvaco.com

800.333.9826

Partnering through
service, innovation, and
integrity

WESTERN DIVISION

660 McKinley Street
Eugene OR 97402
Tel. 800.333.9826

EASTERN DIVISION

6662 Marbut Road
Lithonia GA 30058
Tel. 888.878.9826

MIDWEST DIVISION

1549 Hwy 2
Two Harbors MN 55616
Tel. 218 834 3922

SOUTHERN DIVISION

100 Dixie Mae Drive
Pineville LA 71361
Tel. 800 444 9826

E-800 Epoxy

Rapid-set two-component epoxy used to fill wood defects

DESCRIPTION

E-800 is a rapid set epoxy used for repairing defects in wood. This product is specifically designed to give a fast set-up in small voids so that the repair can be sanded in 20 to 30 minutes. E-800 can be used for numerous types of wood repair such as upgrading dimensional lumber and plywood, filling defects in laminated beams and fixing imperfections in moulding and siding. In addition, E-800 combines user-friendly qualities with superior performance. The epoxy is mixed 1 to 1 by volume. It is free from the irritating odors of polyester and mercaptan. E-800 Epoxy bonds tenaciously to wood, is easily sanded and stained and will not crack or shrink. This epoxy is offered in two versions: E-800 Thick which is a non-sag formula and E-800 Medium which is an easily mixed creamy paste.

WHERE TO USE

- Dimensional Lumber
- Laminated Beams
- Fir and Cedar Siding
- Unrouted and Routed Defects in Plywood
- Moulding, Furniture
- Boats

FEATURES AND BENEFITS

- Easy Mixing
- Cured E-800 can be Sanded, Drilled, Cut and Stained
- Can be Applied in Hot or Cold Temperatures
- Outstanding Adhesion
- Great Moisture Resistance
- Crack and Shrink Resistant

PACKAGING

1-gallon pails
5-gallon pails
20-gallon fiber drums

SHELF LIFE

12 months when properly stored.

STORAGE

Store this product in a clean, dry, shaded or covered environment above 45°F (7.2°C). DO NOT FREEZE.

TECHNICAL INFORMATION

TYPICAL PROPERTIES

Solids		100%
Density – lbs./gallon (Kg/L)	Part A	8.2 (0.984)
	Part B	8.2 (0.984)
Viscosity (centipoise)	E-800 Thick	1,000,000 cps
	E-800 Medium	400,000 cps
Pot Life – at 77°F (25°C), 100 ml or ½ cup (varies with quantity and temperature)		2 minutes
Color (other colors available upon request)		Fir and Custom Colors
Hardness – Shore “D” (on fully cured material)		50

APPLICATION

E-800 Epoxy can be applied using a cartridge, by hand or by the metering system engineered by Willamette Valley Company. **Cartridge:** E-800 is available in a two-component cartridge that automatically dispenses the epoxy. It can be used with a handheld or pneumatic applicator gun. When using, dispense a ¼ cup of the epoxy onto a disposable surface to ensure that flow of both components has equilibrated, then dispense the epoxy into the area to be filled.

By Meter: Please contact your Willamette Valley Company Representative for information on using a metering system.

By Hand: The most common method of mixing uses a pallet, a piece of plywood, 18" X 18", covered with a piece of polyethylene slightly larger than the panel. The correct proportions are one to one by volume. The user can be assured of correct proportions by using 2 identical cups to measure the volume to be mixed. Place equal amounts of Part "A" and Part "B" on the pallet. To mix, we recommend a 2.5" to 3," flexible putty knife. Mix by stirring and pressing the mixture. It is important that some downward pressure be exerted as it causes a more complete mix. To ensure complete mixing, scrape the epoxy off the pallet and gather into one pile in the center of the pallet, then continue mixing with side to side motions and downward pressure.

DO NOT USE additional hardener with the mix for the purpose of speeding up the cure time. Extra hardener has the opposite effect. It just slows down the cure time and softens the patch. Best results are achieved by mixing one to one by volume.

CURE TIME

Remember that E-800 is exothermic when curing, so the larger the mass the faster it will cure. Thus a large amount of epoxy in one pile on the pallet will set-up in less than 2 minutes while epoxy spread to a thin film on a panel will take much longer to cure. The person applying the epoxy should not mix more than can be used in about 2 minutes. In room or air temperature above 80°F the epoxy will set-up in less than 2 minutes. Cure time in small splits is approximately 30 minutes, but an overnight cure is recommended before cutting, sanding, drilling or staining. On hot wood, the cure time is significantly reduced.

ADDITIONAL FEATURES AND BENEFITS

The E-800 Epoxy can be used to repair numerous types of wood products such as:

- ✓ Upgrading dimensional lumber and plywood
- ✓ Filling Defects in Laminated Beams
- ✓ Correcting imperfections in fir and cedar siding
- ✓ Repairing unrouted plywood defects up to 1.5"
- ✓ Repairing routed plywood defects up to 2.25"
- ✓ Fixing Defects in Molding and Furniture
- ✓ Repairing Damage to or Use in Construction of Wooden Boats

Part "A" and Part "B" of E-800 Epoxy have similar viscosities and therefore accommodate easy mixing. In addition E-800 has been formulated with specific thixotropic agents which allow it to be easily mixed and applied at hot or cold temperatures.

Under rigorous tests conducted at mills and in the laboratory, E-800 Epoxy performs as well as a matching wood repair. The formula ingredients of this quality product assure outstanding adhesion and resistance to cracking and shrinking.

NOTES

As it is true with most epoxies, prolonged exposure to direct sunlight will cause the cured epoxy to yellow and degrade over time. Avoid applications of E-800 Epoxy in areas where direct exposure to sunlight is expected.

HEALTH AND SAFETY

Before handling, you should become familiar with the Safety Data Sheet (SDS) regarding the risks and safe use of this product. To obtain an SDS please call 800-333-9826 or send an email to: sds@wilvaco.com.

CLEAN-UP

Use soap and water before the material solidifies.

CONTACT INFORMATION

Please see the side bar on the front page for the Division nearest to your location.

THE WILLAMETTE VALLEY COMPANY LLC

www.wilvaco.com
info@wilvaco.com

OTHER DIVISIONS

PERFORMANCE COATINGS

990 Owen Loop North
PO Box 2280
Eugene, OR 97402
Tel 541.484.9621
www.POLYQUICK.com
www.wvcorailroad.com

PRECISION TECHNOLOGIES DIVISION

990 Owen Loop North
Eugene, OR 97402
Tel 541.484.2368
www.pre-tec.com

CANADIAN DIVISION SURREY BRANCH

19081- 27th Avenue
Surrey BC V3S 5T1
Tel. 800.663.4298

SUBSIDIARIES

ECLECTIC PRODUCTS INC.

Corporate Office
990 Owen Loop North
Eugene, OR 97402
Tel 541.284.4667
www.eclecticproducts.com

IDAHO MILL & GRAIN

445 North 430 West Hwy
PO Box 188
Malad City, Idaho 83252
Tel 208.766.2206

TAPEL WILLAMETTE LTD. S.A.

Av. Estero La Posada 3625
Parque Industrial Coronel
Coronel, Chile
Tel 011.56.41.2.928.100
www.tapel.cl



Document ID: W07-R&D-TDS-172

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Revision Date: June 2020

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