

Technical Data Sheet



W V C O

Willamette Valley Company

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-400 OL-30 Epoxy

Epoxy used to fill plywood defects for overlay applications

DESCRIPTION

E-400 OL-30 Epoxy is a two-component polyamine hardened epoxy product specifically designed to repair defects in plywood prior to overlaying with phenolic impregnated papers (MDO & HDO). With the proper application, press cycle and temperature, production of overlaying boards can be made in one step. Although, E-400 OL-30 Epoxy can be mixed by hand, the use of specialized equipment on an assembly line operation is recommended. This product is designed to extend open time so that the epoxy can be worked in assembly before setting up. The set time is dependent on temperature and mass of epoxy. E-400 OL-30 is also free from the irritating odors of other products such as polyester and/or mercaptans.

WHERE TO USE

- Assembly line in Industrial Applications
- HDO & MDO Plywood Applications
- Upgrading Dimensional Lumber
- Concrete Form Board Manufacturing

FEATURES AND BENEFITS

- Automated Mixing or Hand Mixing
- Once Cured it can be Sanded, Drilled, Cut and Stained
- Applied in Hot Temperatures –heated press
- Outstanding Adhesion
- Moisture Resistant
- Crack and Shrink Resistant

PACKAGING

Cartridges
5-gallon pails
20-gallon fiber drums
55-gallon drums

SHELF LIFE

6 months when properly stored.

STORAGE

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

DURING USE

During use it is recommended to keep material between 80° - 90° F (27 – 32°C).

TECHNICAL INFORMATION

TYPICAL PROPERTIES

Solids		100%	
Density – lbs./gallon (kg/Lt)	Part A	10 (1.2)	
	Part B	10 (1.2)	
Viscosity - centipoise	Part A	77°F (25°C)	33,000
		85°F (29°C)	17,800
	Part B	77°F (25°C)	15,000
		85°F (29°C)	12,300
Consistency		Thick Fluid	
Pot Life – at 77°F (25°C) in 100 mls or ½ cup (varies with quantity and temperature)		13-17 minutes	
Color (other colors available upon request)		Brown	
Hardness – Shore “D” (on fully cured material)		70	

CURE TIME

Remember that E-400 OL-30 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 cure in a short time (generally 20-30 minutes) while epoxy spread to a thin film on a panel will take an hour to cure. The person applying the epoxy should not mix more than can be used in about 20 minutes.

APPLICATION

Automated Metering: It is recommended E-400 OL-30 Epoxy be applied by a specialized metering system engineered by Willamette Valley Company. Please contact your Willamette Valley Company representative for information on metering systems.

By Hand: E-400 OL-30 Epoxy is a thick fluid designed to flow into cracks, splits and voids. Mix in a cup or on a pallet using a piece of plywood or MDF approximately 18" X 18". 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. When using a pallet place equal amounts by volume 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 till the epoxy is one even color.

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

ADDITIONAL FEATURES AND BENEFITS

The E-400 OL-30 Epoxy can be used to repair numerous types of wood products such as:

- ✓ Filling defects in plywood prior to overlaying with MDO or HDO to make concrete form boards
- ✓ 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
- ✓ Use in construction or repair of wooden boats

Part "A" and Part "B" of E-400 OL-30 Epoxy have similar viscosities and therefore accommodate easy mixing.

Under rigorous tests conducted at mills and in the laboratory, E-400 OL-30 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.

HEALTH AND SAFETY

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

WILLAMETTE VALLEY COMPANY

www.wilvaco.com
info@wilvaco.com

OTHER DIVISIONS

PERFORMANCE COATINGS

1075 Arrowsmith Street
PO Box 2280
Eugene, OR 97402
Tel 541.484.9621
www.POLYQUIK.com
www.wvcorailroad.com

PRECISION TECHNOLOGIES DIVISION

675 McKinley Street
Eugene, OR 97402
Tel 541.484.2368
www.pre-tec.com

SUBSIDIARIES

CANADIAN WILLAMETTE

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

ECLECTIC PRODUCTS INC.

Corporate Office
1075 Arrowsmith Street
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



DISCLAIMER OF WARRANTY

TEST RESULTS ARE TO BE CONSIDERED AS REPRESENTATIVE OF CURRENT PRODUCTION AND SHOULD NOT BE TREATED AS SPECIFICATIONS. WHILE ALL THE INFORMATION PRESENTED IN THIS DOCUMENT IS BELIEVED TO BE RELIABLE AND TO REPRESENT THE BEST AVAILABLE DATA ON THESE PRODUCTS, NO GUARANTEE, WARRANTY, OR REPRESENTATION IS MADE, INTENDED, OR IMPLIED AS TO THE CORRECTNESS OR SUFFICIENCY OF ANY INFORMATION, OR AS TO THE SUITABILITY OF ANY CHEMICAL COMPOUNDS FOR ANY PARTICULAR USE, OR THAT ANY CHEMICAL COMPOUNDS OR USE THEREOF ARE NOT SUBJECT TO A CLAIM BY A THIRD PARTY FOR INFRINGEMENT OF ANY PATENT OR OTHER INTELLECTUAL PROPERTY RIGHT. EACH USER SHOULD CONDUCT A SUFFICIENT INVESTIGATION TO ESTABLISH THE SUITABILITY OF ANY PRODUCT FOR ITS INTENDED USE.

Revision Date May 2012