

Technical Data Sheet



W V C O

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innovation, and integrity

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E-460 Epoxy - Thick

Two-component epoxy used to fill wood defects

DESCRIPTION

E-460 is a two-component, polyamine hardened epoxy used for the repair of defects in wood. Used in the wood products industry; it can be applied by hand or meter on an assembly line operation. This product has been formulated with an extended open time so that the epoxy can be worked before setting up: 50-65 minutes, depending on temperature and quantity. Once cured E-460 Epoxy can be easily sanded, cut, drilled and stained. E-460 Epoxy is also free from the irritating odors of polyester and mercaptan.

WHERE TO USE

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

FEATURES AND BENEFITS

- Easy Mixing
- Cured E-460 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	10 (1.2)
	Part B	9 (1.08)
Consistency		Creamy Paste
Pot Life – at 77°F (25°C) in 100 mls or ½ cup (varies with quantity and temperature)		60 minutes
Color (other colors available upon request)		Black
Hardness – Shore “D”-(on fully cured material)		50

APPLICATION

The E-460 Epoxy can be applied by hand or by a Willamette Valley Company meter.

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.

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

CURE TIME

Remember that E-460 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 45-55 minutes) while epoxy spread to a thin film on a panel will take several hours to cure. The person applying the epoxy should not mix more than can be used in about 60 minutes. In room or air temperature above 90°F the epoxy will cure in about 45 minutes. Cure time in small splits is approximately 8 hours, 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-460 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-460 Epoxy have similar viscosities and therefore accommodate easy mixing. In addition E-460 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-460 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-460 Epoxy in areas where direct exposure to sunlight is expected.

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.

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.

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