

TECHNICAL DATA

JP-70LV CONSOLIDATING EPOXY

PRODUCT DESCRIPTION:

JP-70LV Low Viscosity Consolidating Epoxy is a two-component, high strength, very low viscosity epoxy system that is capable of saturating the deteriorated fibers of wood that have been damaged by decay. The wood must be dry to allow for proper penetration of the epoxy. **JP-70LV Consolidating Epoxy** will not displace water from the wood and will not properly bond to wet wood. **JP-70LV Consolidating Epoxy** must not be applied in a way that will trap pockets of damp wood below the epoxy consolidated wood.

If the wood to be treated with the **JP-70LV Consolidating Epoxy** is wet, it is recommended to apply a borate based wood preservative, such as BoraCare, to reduce the risk of future decay activity. Wood fiber that has been impregnated with **JP-70LV Consolidating Epoxy** will not decay further. Non-consolidated wood in the adjoining area is still susceptible to decay if area gets wet.

PHYSICAL PROPERTIES:

Weight per Gallon	A: 9.382 lbs	B: 8.091 lbs
Color	A: Light Straw	B: Amber
Mixing Ratio		
(by Weight)	2.32 parts "A" to 1 part "B"	
(by Volume)	2 parts "A" to 1 part "B"	
Shelf Life	1 year	
Viscosity (A+B mixed)	100 cps @ 77°F/25°C	

TESTING DATA:

Linear Coefficient of Shrinkage on cure. ASTM D 2566 0.005
Slant Shear Bond Strength
2 Day 1,000 psi 6.8 MPa
14 Day 1,500 psi 10.3 MPa
Compressive Strength. ASTM D 695
7 Day 8,000 psi @ 75°F (24°C) 55 MPa
Tensile Strength. ASTM D 638
6,000 psi 41.3 MPa
Tensile Elongation. ASTM D 638 2%

MIXING:

Stir each component individually prior to measuring and mixing. If using a complete unit of the epoxy, open both Component "B" containers and pour the entire contents into the Component "A" container. Thoroughly mix Components "A" and "B" together.

If using less than a complete unit of the epoxy, measure out the appropriate amount of Component "A" and "B" into separate containers. Measure exact amounts using either the weight or volume ratios. Mix components "A" and "B" together. It is extremely important to thoroughly mix the two components.

(by Weight) **2.32 parts A to 1 part B**
(by Volume) **2 parts A to 1 part B**

Substrate and ambient temperatures must be above 40°F(4°C).

NOTE: Do not thin **JP-70LV Consolidating Epoxy**. Solvents will prevent proper cure.

WOOD PREPARATION: Wood area to be consolidated must be cleaned of old coatings, oils, grease, waxes, fungus, and other contaminants that may be detrimental to penetration. Wood must be dry prior to consolidation of deteriorated fiber. Use release agents and/or plastic sheeting to protect surfaces not being treated.

APPLICATION: **JP-70LV Consolidating Epoxy** can be applied to dry deteriorated wood by way of brushing, pouring, or injecting. Deteriorated wood fiber saturated with **JP-70LV Epoxy Consolidant** will harden as epoxy cures. Use enough epoxy to provide adequate saturation of deteriorated fibers. It may be necessary for the epoxy to be applied more than once to achieve complete consolidation.

After the epoxy has cured, the zone of deterioration can be probed to determine if any non-consolidated deteriorated wood remains. Probing can be achieved by using a drill and a thin drill bit of appropriate length. When test drilling an area, check the the drill bit cuttings to determine if non-consolidated deteriorated wood remains. The holes drilled to test the consolidation process can be used to provide access for new epoxy application through the area of wood already consolidated.

Be careful not to allow epoxy to flow out of the wood and onto adjoining surfaces or materials.

CLEAN UP: Clean equipment and tools immediately after use. Clean with a mixture of 50% MEK and 50% Xylene. Wash hands and skin areas with soap and warm water.
Refer to MATERIAL SAFETY DATA SHEET.

PERSONAL PROTECTION: Wear eye, hand and respiratory protection and protective clothing. Use adequate general and local ventilation. Wash at the end of each work shift and before eating, smoking or using the toilet. Launder or discard contaminated clothing. **Refer to MATERIAL SAFETY DATA SHEET.**

STORAGE: Store in a dark, cool, dry location. Do not freeze. Shelf life is one year in unopened containers, stored as specified. If containers are opened and partially used, it is very important to tightly seal containers and store as specified. Do not contaminate one component with the other and do not pour unmixed epoxies back into containers. Keep outside surface of the containers free of drips and spills.

NOTE: Epoxy resin (A Component) may crystallize. Heating material to 120°F and stirring will reconstitute material to original condition. Allow to cool before using. Exposure to elevated temperatures for prolonged periods is not recommended.

The facts stated and the recommendations made for the use of all products are based on tests which we believe to be reliable. However, no guarantee of their accuracy can be made due to the great range of field conditions that exist and also because of variations encountered in methods of installation. For these reasons the products are sold without warranty, expressed or implied, and on the condition that the purchaser shall make their own tests to determine the suitability of the product for their particular purposes. Under no circumstances will PRG be liable for damages to anyone in excess of the purchase price of the products.

This information is subject to change without notice and supersedes all previous specifications. 12/04

Preservation Resource Group (PRG)

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