MAS
TIME SAVING EPOXY RESINS

PENETRATING EPOXY SEALER

SOLVENT-FREE PENETRATING EPOXY SYSTEM

TECHNICAL DATA BULLETIN

SYSTEM BENEFITS:

MAS Penetrating Epoxy Sealer is a 2:1 by volume ultra-low viscosity system designed to penetrate soft, rotten or damaged wood. Contains zero solvent for a VOC-free solution but add up to 50% solvent for more penetrating power. It restores strength and creates a stronger finished product. It can be used on window frames, door frames, windowsills, boat hulls, transom reinforcement and any other spongy or rotten wood. Ideal for sealing projects before coating or laminating applications to prevent warping due to temperature and humidity changes.

- Penetrates without any solvent for a VOC-free sealing solution
- Excellent at repairing rotten wood for further repair
- Seals wood and other substrates to prevent warping on woodworking projects

HANDLING PROPERTIES	PENETRATING EPOXY	Test Method
Resin Density at 25°C, lbs/gal	9.5	ASTM D1475
Hardener Density at 25°C, lbs/gal	8.1	ASTM D1475
Resin Viscosity at 25°C, cP	270	ASTM D2196
Hardener Viscosity at 25°C, cP	20	ASTM D2196
Mix Ratio by Weight	100A : 43B	Calculated
Mix Ratio by Volume	2A : 1B	Calculated
Initial Mixed Viscosity 25°C, cP	150	ASTM D2196
Gel Time at 75°F, 150g mass, min.	25-30	ASTM D2471
Tack Free Time at 75°F, hours	10-12	
Full Cure at 75°F, days	4	
Gel Time at 85°F, 150g mass, min.	18-22	ASTM D2471
Tack Free Time at 85°F, hours	6-8	
Full Cure at 85°F, days	2	

INSTRUCTIONS FOR USE:

The wood must be dry before applying MAS Penetrating Epoxy Sealer. In extreme cases of deep rot, drill a series of holes in decayed matter and poor liberally into the rotted area. MAS Penetrating Epoxy Sealer Part A (resin) is to be mixed with MAS Penetrating Epoxy Sealer Part B (hardener) before use. Mix two parts resin to one part hardener by volume. Mix no more material than can be applied in a 20 minute period. Optionally, common paint solvents such as denatured alcohol, lacquer thinner or acetone can be added to increase penetration. As much as an equal volume of solvent may be added. Once combined, the resin and hardener should be thoroughly mixed for two minutes.

APPLICATION:

Apply to rotten wood with a brush, roller, syringe or epoxy spreader. Allow ample time for MAS Penetrating Epoxy to soak well into the wood to ensure complete saturation. Pot Life and Cure times will depend on temperature – Do not use at temperatures below 50 ˚F. At 75˚F: Pot Life is 25-30 minutes and Full Cure is 4 days. At 85˚F: Pot Life is 18-22 minutes and Full Cure is 2 days.

STORAGE AND CRYSTALLIZATION:

Store between 60-90°F in a dry place. After use, tightly reseal all containers and store products on a raised surface during cold weather and avoid storing near outside walls or doors. If available, purge with dry nitrogen to preserve color and minimize moisture contamination. Do not allow to freeze during winter storage. Do not use material with any signs of crystallization such as solid chunks, grainy texture or white color. Crystallization can be reversed by heating the material to 125-140°F, and stirring occasionally, until all crystals dissolve.

SAFETY HANDLING:

Wear protective gloves, clothing, and eye/face protection. Use only outdoors or in a well-ventilated area. Avoid contact to the skin and eyes. Avoid breathing dust, fumes, gas mist, vapors and spray. Wash hands thoroughly after handling. Take off contaminated clothing and wash before reuse. These products may cause skin and respiratory allergic reactions. Consult product Safety Data Sheets for complete precautions for use of this product.

Polytek Development Corp has experience only in the compounding of resins and hardeners and not in the actual manufacture of tools or parts. Each piece is different. The user should run tests to assure the suitability of the system for use in a particular application. The test data and results set forth herein are based on laboratory work and do not necessarily indicate the results that the buyer or user will attain.

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