



TECHNICAL DATA BULLETIN

COLD WEATHER PENETRATING EPOXY

TotalBoat Cold Weather Penetrating Epoxy is a low-viscosity wood rot restoration and repair solution that seals deeper and cures stronger than industry leading penetrating epoxies. It contains no highly volatile solvents and does not have a solvent odor. This 2:1 system is ideal for restoring rotten or damaged wood, as well as sealing new wood for lasting protection against humidity, salt, mold and mildew. TotalBoat Cold Weather Penetrating Epoxy works by gluing cellulose (wood) fibers back together and sealing a porous wood surface from the inside out. Once cured, this epoxy is 100% waterproof. Surfaces may be painted or varnished over after light sanding. TotalBoat Cold Weather Penetrating Epoxy may be applied by brush, roller, or injected via syringe. Acetone can be mixed with the epoxy resin solution in equal volume to double the penetrating power.

PROPERTIES	<u>VALUE</u>	<u>TEST METHOD</u>
Resin Density at 70°F, lbs/gal	9.5	ASTM D1475
Hardener Density at 70°F, lbs/gal	8.9	ASTM D1475
Resin Viscosity at 70°F, cP	360	ASTM D2196
Hardener Viscosity at 70°F, cP	270	ASTM D2196
Mix Ratio By Volume	2A to 1B	Calculated
Mix Ratio By Weight	100A to 47B	Calculated
Initial Mixed Viscosity at 70°F, cP	300	ASTM D2196
Pot Life at 70°F, 150g mass, min.	10-15	ASTM D2471
Tack-Free Time at 70° F, hours	4-6	
Full Cure at 70°F, days	2	
Pot Life at 40°F, min.	40-50	ASTM D2471
Tack-Free Time at 40°F, hours	16-24	
Full Cure at 40°F, days	4	

INSTRUCTIONS FOR USE:

SURFACE PREPARATION: The wood must be dry before applying TotalBoat Cold Weather Penetrating Epoxy. In extreme cases of deep rot, drill a series of holes in decayed matter and pour liberally into the rotted area. **MIXING:** TotalBoat Cold Weather Penetrating Epoxy Part A (resin) is to be mixed with TotalBoat Cold Weather Penetrating Epoxy Part B (hardener) before use; epoxy must be used immediately after mixing because the exothermic reaction will generate heat. Mix two parts resin to one part hardener by volume. **MIX IN SMALL BATCHES ONLY.** If unsure how much to mix, start with 4 oz. Mix no more material than can be applied in a 20-minute period. Once combined, the resin and hardener must be mixed thoroughly for two minutes. Due to the nature of this epoxy system, no induction time





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INSTRUCTIONS FOR USE (cont.):

is necessary—APPLY IMMEDIATELY AFTER MIXING. Optionally, common paint solvents such as MEK or acetone can be added to increase penetration. As much as an equal volume of solvent may be added.

APPLICATION: Apply to rotten wood with a brush, roller, syringe, or epoxy spreader. Allow ample time for TotalBoat Cold Weather Penetrating Epoxy to soak well into the wood to ensure complete saturation. Application temperature is between 40-65°F. Pot life and cure times will depend on temperature – DO NOT use at temperatures above 70°F. At 70°F: Pot life is 10-15 minutes, and full cure is 2 days. At 40°F: Pot life is 40-50 minutes, and full cure is 4 days.

STORAGE:

Store at 60-90°F in a dry place. After use, tightly reseal all containers. Store products on a raised surface off the floor during cold weather and avoid storing near outside walls or doors. Epoxy resins that are contaminated with dust or moisture, or are subjected to low temperatures may crystallize. Do not use material that has any sign of crystallization until it has been liquefied. A crystallized resin or hardener can be returned to its original state by heating the material to 140°F to 150°F and stirring until it returns to the liquid state.

SAFETY HANDLING:

Work in well-ventilated areas using gloves, eye protection, and clothing protection. Avoid contact to the skin and eyes. Avoid clothing contamination. Wash thoroughly after handling. These products may cause skin and respiratory allergic reactions. Consult Safety Data Sheets (SDS) for complete health and safety information.

Jamestown Distributors 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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