MAS
TIME SAVING EPOXY RESINS

WOODZILLA

WOOD-FILLED EPOXY PASTE ADHESIVE

TECHNICAL DATA BULLETIN

SYSTEM BENEFITS:

MAS Woodzilla is two-part, wood-filled, epoxy paste adhesive conveniently packaged in a cartridge. It can be dispensed from a standard caulking gun eliminating the mixing and mess of working with epoxy and wood flour. This quick curing brown colored epoxy paste is excellent for bonding, sealing, filling and filleting applications. Ideally suited for stitch and glue construction. The peanut butter consistency holds glue lines without dripping or sagging. Woodzilla can be painted, drilled, machined, sanded, tapped or cut after full cure.

- Convenient cartridge fits a standard caulking gun
- Cures quickly for fast gluing and bonding projects
- No need to measure and mix tough to work with wood flour

HANDLING PROPERTIES	MAS WOODZILLA	Test Method
Resin Color	Brown	Visual
Hardener Color	Dark Brown	Visual
Resin Density at 25°C, lbs/gal	9.2	ASTM D1475
Hardener Density at 25°C, lbs/gal	8.4	ASTM D1475
Mix Ratio by Weight	100A : 46B	Calculated
Mix Ratio by Volume	2A : 1B	Calculated
Initial Mixed Viscosity 25°C, cP	Thixotropic	ASTM D2196
Gel Time at 25°C, 150g mass, minutes	30	ASTM D2471
Sag Resistance, inches	3/8	Vertical Surface
Minimum Recommended Temp, °F	55	

PHYSICAL PROPERTIES	MAS WOODZILLA	Test Method
Color	Brown	Visual
Tensile Strength, psi	7,200	ASTM D638
Tensile Modulus, psi	437,000	ASTM D638
Tensile Elongation, %	6.2	ASTM D638
HDT, Room Temperature Cure, °F	124	ASTM D648
HDT, Post Cure, °F	132	ASTM D648
Compressive Strength, psi	9,800	ASTM D695
Flexural Strength, psi	10,100	ASTM D790
Flexural Modulus, psi	413,000	ASTM D790
Cured Density, g/cm^3 (lbs/in^3)	1.17 (0.042)	ASTM D790
Volumetric Yield, in^3/lb	23.7	ASTM D792
Volumetric Shrinkage, %	3.5	ASTM D792/2196
Hardness, Shore D	82	ASTM D2240
Tensile Adhesion, Wood, psi	1,390	ASTM D4541

INSTRUCTIONS FOR USE:

For best results use this product at or above 55°F. Surfaces should be clean, dry and sanded before application to remove dirt, dust, grease, loose paint, oils or other contaminants. The adhesive will gel in about 50 minutes at 77°F. Assemble and clamp parts in position before the adhesive begins to gel. Keep parts clamped until the adhesive is cured, about 24 hours. Cure time is faster at warmer temperatures and slower at cooler temperatures.

MIXING AND HANDLING:

Remove retaining nut and nose plug from the top of the cartridge. Insert the cartridge into a caulk gun. For best results use a caulk gun with an 8 to 1 thrust ratio or higher. Dispense a small amount of material from the cartridge before attaching the static mixing nozzle to ensure that the two components (Part A and Part B) are flowing from both sides of the cartridge nozzle. Attach the static mixing nozzle to the cartridge and if necessary, reinstall the retaining nut. Tighten firmly. Trim the tip of the static mixing nozzle to deliver the desired size bead. Material should flow from the static mixing nozzle in one uniform color when dispensed. The adhesive may also be dispensed without a static mixing nozzle, but must be dispensed into a cup and thoroughly mixed before application

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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