MAS
TIME SAVING EPOXY RESINS

DEEP POUR

CLEAR CASTING EPOXY RESIN SYSTEM

TECHNICAL DATA BULLETIN

SYSTEM BENEFITS:

The MAS Deep Pour Epoxy Resin System is a 100% solids, two-component, three to one by volume room temperature curing epoxy resin system formulated for deep pour casting, encapsulating and molding applications. It cures to a clear, glass-like finish that resists scratching and yellowing with an extended gel time to minimize exotherm and improve air release.

- Epoxy system specifically designed for casting
- Clear system is compatible with a variety of colorants if desired
- Long gel time to mitigate yellowing and cracking during cure

HANDLING PROPERTIES	MAS DEEP POUR	Test Method
Resin Density at 25°C, lbs/gal	9.3	ASTM D1475
Hardener Density at 25°C, lbs/gal	7.9	ASTM D1475
Resin Viscosity at 25°C, cP	1,000	ASTM D2196
Hardener Viscosity at 25°C, cP	10	ASTM D2196
Mix Ratio by Weight	100A : 28B	Calculated
Mix Ratio by Volume	3A : 1B	Calculated
Initial Mixed Viscosity 25°C, cP	260	ASTM D2196
Gel Time at 25°C, 150g mass, hrs.	5.5	ASTM D2471

PHYSICAL PROPERTIES	MAS DEEP POUR	Test Method
Color	Clear	Visual
Izod Impact, Notched, ft-lb/in	0.84	ASTM D256
Tensile Strength, psi	8,000	ASTM D638
Tensile Modulus, psi	525,000	ASTM D638
Tensile Elongation, %	1.8	ASTM D638
HDT, Room Temp Cure, °F	118	ASTM D648
HDT, Post Cure, °F	122	ASTM D648
Compressive Strength, psi	13,700	ASTM D695
Compressive Modulus, psi	453,000	ASTM D695
Flexural Strength, psi	13,60	ASTM D790
Flexural Modulus, psi	520,000	ASTM D790
Cured Density, g/cm^3 (lbs/in^3)	1.15 (0.040)	ASTM D792
Volumetric Yield, in^3/lb	25.0	ASTM D792
Volumetric Shrinkage, %	3.85	ASTM D792/2196
Hardness, Shore D	82	ASTM D2240

INSTRUCTIONS FOR USE:

All surfaces must be clean, dry and free of contamination. Contaminates include, but are not limited to dust, oil, moisture, sap, lint, and sanding debris. Do not use paper towels, dirty rags, contaminated sandpaper, or touch surface with oily fingers. Sand as needed and clean off sanding debris. Wipe surface down with a clean cotton t-shirt rag soaked in an oil free solvent like denatured alcohol prior to applying epoxy seal coat. DO NOT pour Deep Pour on unsealed wood or porous surfaces. If surface is not sealed prior to pouring, moisture will produce foam and bubbles producing pour results. Molds and patterns should be treated with release or parting agents.

MIXING:

Combine 3-parts Deep Pour Resin (Part A) to 1-part Deep Pour Hardener (3A:1B) by volume, 100-parts resin to 28-parts hardener (100A:28B) by weight. Using the recommended mix ratio is VERY important when using epoxy. DO NOT deviate to attempt to speed up or slow down the gel time. Mix thoroughly for 2-3 minutes scraping sides and bottom of container occasionally until no streaks or striations. Add colored pigment powder or dye to mixture if desired. Transfer to second clean/dust free container and mix 1-2 minutes again until fully blended. For product application tutorial and additional information visit www.masepoxies.com or call at 1-800-755-8568.

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.

Polytek Development Corp makes no warranty expressed or implied, including warranties of merchantability or fitness for a particular use. Under no circumstances will Endurance Technologies, Inc. be liable for incidental, consequential or other damages, alleged negligence, breach of warranty, strict liability, tort or any other legal theory arising out of the use or handling of this product.

Revised March 2026