

## TECHNICAL DATA SHEET

# 1032/837

## CLEAR COATING WOOD SATURANT & LAMINATING SYSTEM

### U.V. RESISTANT

### DESCRIPTION:

The **1032/837** is a two components, epoxy system that cures at room temperature. It gives good protection against water to help prevent wood rotting. This system is an excellent wetting agent for different fabric types. It exhibits a very good weathering resistance (to yellowing and chalking) with an increased U.V. resistance that will last three to four times longer than other ordinary epoxy systems.

### USES:

#### Clear coating:

Apply two or three coats to seal and to waterproof the wood. Gives a natural finish.

#### Laminating resin:

May be used to laminate fiberglass, carbon fibers, Kevlar and other similar fabrics.

### TYPICAL UNCURED PROPERTIES:

Components	Mixing Ratio		Specific Gravity	Viscosity ASTM D-2393 Brookfield @ 25 <sup>0</sup> C mPa.s (cps)	Color
	By weight # Parts	By volume # Parts			
Resin	100	100	1.13	900 - 1 100	Translucent
Hardener	30	33	1.01	100 - 200	Amber
Mix			1.10	600 - 700	Amber

### SHELF LIFE:

12 months.

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**Gel time:**

**Tack free (thin film)**

**Sandable (thin film)**

Minutes	Temp. °C	Masse (gr.)
20 - 25	22	150

Temp. °C	Time (hrs)
22	3

Temp. °C	Time (hrs)
22	12

**COVERAGE:**

One (1) liter covers approximately 1.25 m<sup>2</sup> (13.5 ft<sup>2</sup>) @ 0.8 mm (1/32 in) thickness.

**FULL CURED PROPERTIES:**

7 days @ 22 °C (72 °F).

**MECHANICAL PERFORMANCES:**

After minimum cure schedule for 7 days @ 22 °C (72 °F).

	ASTM	
Tensile strength, psi:	D-638	9,932
Tensile modulus, psi:		542,300
Compressive strength, psi:	D-695	13,383
Flexural strength, psi:	D-790	16,530
Flexural Modulus, psi:	D-790	540,850
Hardness, Shore D:	--	86
Elongation, %:	D-638	3.01
Water absorption, (immersion 24 hrs), %:	--	0.1

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### WOOD PREPARATION:

All parts of the wood must be covered in order to achieve the maximum protection. Two or three coats are to be applied. Three coats are necessary if sanding is done between each coat.

Because the first coat is a wood saturating coat, it will leave the wood rough and fuzzy. This is because the grain has expanded slightly from the resin absorption.

Mix only as much resin as you can apply in a 10 to 15 minutes period. Use of a disposable high density urethane foam roller is the most practical method to apply the coating.

For areas inaccessible to the roller, use disposable short bristle brushes. Brushes should be used mainly for touch-ups.

The amount of resin needed to saturate a bare wood surface is dependent upon a number of factors such as wood species and grain. If some areas look dry as the resin is soaking in, recoat them. If needed, roll another coat over the first after a few minutes.

Inspect the surface area for the next 15 minutes to detect any areas where excessive saturation is taking place and recoat these areas wherever it is necessary.

Do not use methylene chloride or acetone to dilute the resin as these solvents interfere with the water barrier quality of the system.

The sanding of the system can be done by machine or by hand. For machine sanding, 80 to 100 grit sandpaper should be used initially followed by 120 to 180 grit sandpaper. However should further sanding be required, wet sanding by hand using 220 to 320 grit sandpaper will provide a much better prepared surface for a high gloss final finish.

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### MIXING:

1. Mix **1032** resin only with **837** hardener in order to achieve above characteristics.
2. Do not use damaged or leaking containers.
3. Premix resin and hardener separately. Then place the hardener into the resin container according to the required mixing ratio.
4. Blend the hardener into the resin thoroughly using a paddle attached to a low speed heavy duty electric drill at 300-600 rpm. Continue to mix for a minimum of 3 minutes or until the mix becomes homogeneous.
5. Never dilute with solvents.

### CLEANING OF TOOLS:

Tools and equipment should be cleaned immediately after use with our #17 solvent or "Clean tool" #4 for a safer use.

### STORAGE:

Keep containers closed until just before use at a temperature above 15 °C.

### CAUTION:

Keep resin and hardener away from eyes and skin. Avoid breathing of vapors and use good ventilation. Like any reactive material, uncured resin and hardener may irritate sensitive skin. Wear protective clothing, goggles and gloves.

### EYES:

Flush immediately with plenty of water for 15 minutes and obtain medical aid.

### SKIN:

Clean skin with warm water and a soft soap. Never use solvents to remove material from skin.

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