

# TAP Bond Coat Laminating Polyester Resin

## Tech Data Sheet (REV 12/2014)

### Description

TAP Bond Coat Laminating Polyester Resin is an Ortho GP, thixotropic, polyester resin designed for the fabrication of small to large FRP parts at ambient temperature. TAP Bond Coat Laminating Polyester Resin is pre-promoted for curing at room temperature with the addition of methyl ethyl ketone peroxide (MEKP) initiator. TAP Bond Coat Laminating Polyester Resin is designed to be used with both the spray-up and hand lay application technique.

### Features

- Extremely fast wet out and Roll out
- Ortho
- Thixotropic
- Moderate trim time
- Early development of Barcol Hardness
- Little or no pattern transfer through gel-coat surfaces.

### Uses

- Yacht/Boat Construction
- Manufactured parts
- Spray up process
- Hand Lay-up application

### TYPICAL PROPERTIES \*1

#### Uncured Resin

<u>Test</u>	<u>Value</u>
Viscosity, 77° F	350-450cps
Specific Gravity, 77° F / 77° F	1.21
Curing Property, 77° F	1% MEKP 9% active
Gel Time 77° F	11-15 minutes
Time to Peak	30-55 minutes
Thix Index*1	1.7-2.2
Peak Exothermic Temp.	122° F- 158° F

\* 1. 6RPM/60RPM (Brookfield Viscometer)



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### Cured Resin \*2

<b>Test</b>	<b>Value</b>
Tensile Strength	8,958 psi
Flexural Strength	17,205 psi
Flexural Modulus	639,874 psi
Tensile Modulus	682,532 psi
Barcol Hardness,	934-1 41
Water Absorption	.25%

### Laminated Physical Properties \*3

<b>Test</b>	<b>Value</b>
Tensile Strength	15,215 psi
Flexural Strength	25,453 psi
Flexural Modulus	966,920 psi
Tensile Modulus	1,109,114 psi
Barcol Hardness,	934-1 45
Glass Content	31.5%

\* 2. Thickness : 3 mm  
After Cure: 230°F × 2hrs

\* 3. #450 Chopped Strand Mat 2 plies  
#570 Roving Cloth 2 plies  
Glass Content: 40 %  
After Cure : 104°F × 16hrs

### Handling & Storage

As with all polyester resin, rate and degree of cure are a function of initiator concentration and temperature. Resin and work area should be between 70°F and 95°F to ensure satisfactory results. Initiator levels should be within a range of 1.0-2.2% based on the weight of the resin. The use of initiator levels outside of this range may result in an inadequate cure, with laminates exhibiting moderate to severe post cure after demolding.

TAP Bond Coat Laminating Polyester Resin is available in Pints, Quarts, Gallons, 5-Gallon Pails and 55-Gallon drums.

To ensure maximum stability and maintain optimum resin properties, resins should be stored in closed containers at temperatures below 75°F and away from heat sources and sunlight. All storage areas and tanks should conform to local fire and building codes. Drum stock should be stored away from all sources of flame or combustion. Inventory levels should be kept to a reasonable min with first-in, first-out stock rotation.

### Safety

Read and understand the Material Safety Data Sheet before working with this product



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