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TECHNICAL DATA SHEET
Phase Two®
Composite Resin
System

DESCRIPTION:

Phase Two® is an epoxy resin system especially designed for building composite boat hulls with foam, balsa or honeycomb cores. It achieves an optimum balance of mechanical and toughness properties by utilizing two-phase morphology. It is the best wet-lay-up resin available anywhere. Phase Two's very long pot life makes it ideal for vacuum bagging. We provide complete application information including a technical paper explaining the concept behind Phase Two Epoxy.

RESIN PROPERTIES:

Viscosity @ 25° C 3600 cps
Density 9.70 lb/gal
Color Clear

CONVERTER PROPERTIES:

Viscosity @ 25° C 55 cps
Density 8.25 lb/gal
Color Straw Yellow

MIXED SYSTEM PROPERTIES:

Viscosity 920 cps
Mix ratio by volume resin/hardener 10:4
Mix ratio by weight resin/hardener 3:1
Pot Life @ 25° C
100 gram sample 105 minutes
1 quart sample 75 minutes
Mold Open time @ 25° C (100 g sample) 3-4 hours
Tack free time (20 mil film, 25° C) 5-6 hours

TYPICAL CURED PROPERTIES:

Full cure @ 140° F 2 hours
Hardness ,Shore D 83
Tensile Strength, psi 9600
Tensile Elongation at break 7.5%
Flexural Strength, psi 19,000
Flexural Modulus, psi 515,000
Compressive Strength 32,000 psi
Heat Distortion Temperature (°C) 64
Glass Transition Temperature(°C) 72
Water Immersion Weight Gain @ 60°C, 30 days(%) 2.8

For health and safety information concerning this product, please refer to the MSDS for Phase Two® Composite Resin System.

The information contained herein is based on the data available to us and is believed to be correct. However, System Three Resins, Inc. makes no warranty, expressed or implied, regarding the accuracy of these data or the results to be obtained from the use thereof. System Three assumes no responsibility for injury from the use of the product described herein.