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WEP RESIN WATER EXTENDED POLYESTER Product Data Sheet

WEP Resin is a liquid, unique polyester resin system, which is emulsified with water to extend the polyester and improve physical properties. A catalyst, NOROX W-60, is required to initiate cure after emulsion process. Fillers are added just before catalyzing to adjust appearance and reduce shrinkage. Use to produce parts are easily be stainable with water based acrylics.

Note: *Extra Handling and Shipping Fees are applied when shipping. UPS Ground Only.*

Available Sizes: Pint (1 lb) Quart (2 lb) Gallon(8 LB) 5 Gallon (40 lb)

General Information:

Extending the resin with water is an important feature of this resin. As a filler, water is low cost and reduces the overall production cost of the finished part. Water also acts as a heat sink (absorbs heat) making it easy to cast parts without exotherm problems. In addition, the viscosity of the emulsion is low enough that it will pick up minute details in the mold, and the emulsion gels and cures quickly providing rapid mold turnover. A variety of mold materials can be used successfully with WEP resin: Latex, Urethane, and Silicone rubber are common types--each has its advantages.

Casting with WEP:

WEP resin can be pumped through a continuous mixing machine with catalyzed water, producing a fluid emulsion with a gel time of approximately 5 to 6 minutes. The cast part can be demolded within 12 to 15 minutes, depending upon configuration of part, the water content and resin employed. For normal applications, 40% water content is recommended, although WEP resins can be used at higher water levels. Water content of 40% to 60% WEP produces a wood like plastic which paints well with water base acrylics.

CATALYST:

WEP requires NOROX W-60 catalyst. Add 1% of W-60 calculated on the combined weight of both Resin and water--*Filler Weight is not used to calculate % Catalyst.* Avoid excessive exotherm by reducing catalyst ratio when casting large pieces or when weather is hot. Recommended fillers are Thermolite or CC200 at ratios of 50% to 100% of resin /water mixture weight.

TYPICAL PROPERTIES OF WEP RESIN:

COLOR:	PURPLE, HAZY
LB/GAL @ 77F:	8.6
VISCOSITY, CPS:	130
FLASH POINT PM F:	< 86

FORMULATION FOR SIMULATED WHITE:(By Weight)

60 PPH --WEP
40 PPH --WATER
100 PPH --CC -200 Filler
10 PPH -- T-102 Filler
10 PPH -- HGF-100 Filler

THE INFORMATION AND DATA CONTAINED HEREIN ARE BASED ON INFORMATION WE BELIEVE RELIABLE. EACH USER OF THE MATERIAL SHOULD THOROUGHLY TEST ANY APPLICATION AND INDEPENDENTLY CONCLUDE SATISFACTORY PERFORMANCE BEFORE COMMERCIALIZING. SUGGESTIONS OF USES SHOULD NOT BE TAKEN AS INDUCEMENTS TO INFRINGE ON ANY PARTICULAR PATENT.

CAUTION:

ABOVE MIXTURE MUST BE HIGH SPEED MIXED WITH A PREFERABLE EXPLOSION PROOF MOTOR. CALL FOR MORE INFORMATION.