

COLTECH R 3901

TECHNICAL DATA SHEET
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Insulating Resin / Varnish Dip procedure

Product description

COLTECH R 3901 is a single component, solvent based, semi rigid, electro-insulating Polyurethane sealer resin. It provides excellent durability, high temperature and chemical resistance properties with minimum shrinkage.

COLTECH R 3901 is suitable for dipping procedure.

Cures at room temperature.

Uses

The COLTECH R 3901 is a specialized impregnating Polyurethane based electroinsulating resin / varnish for secondary insulation of:

- Low and medium voltage transformers, stators and coils

Advantages

- Cold curing
- Slower curing, suitable for dipping procedure
- Temperature resistance up to 180°C
- Excellent hydrolytic stability
- High impact strength
- Excellent adhesion to metal and selected plastics
- Chemical and salt-water resistant
- Over 10 years of positive feedback worldwide.

Consumption

0,2-0,3 kg/m² in double dip procedure per layer.

Two layers are normally recommended

Colors

The COLTECH R 3901 is supplied in yellow-brown transparent. Other colors may be supplied on demand.

Technical Data *

PROPERTY	RESULTS	TEST METHOD
Hardness (Shore A Scale)	>80	ASTM D 2240
Solids Content	50 %	CALCULATED
Temperature strength	180°C (Fully cured)	IN HOUSE LAB
Low Temperature Brittleness	-20° C (Fully cured)	IN HOUSE LAB
Pot Life	No limitation as single component. Dip procedure possible	
Tack Free Time *	2-4 hours	Conditions: 23°C, 50%RH
Initial Curing Time	24 hours	
Final Curing time	7 days	

Chemical Properties

Water	+	Hydrochloric acid 5%	+
Potassium hydroxide 5%	+	Unleaded fuel	+
Sodium hydroxide 5%	+	Diesel fuel	+
Salt water 20%	+	Xylene	±
Domestic Detergents (diluted to use)	+	Brake fluid	-
Sulfuric acid 5%	+	N-Methyl pyrrolidone	-

{+ stable, - unstable, ± stable for a short period.}

Application

Surface Preparation

Before impregnation, check that coils are free of moisture (Maximum surface moisture content should not exceed 4%).

Dip procedure

Double dip the coil into the varnish.

Depending on temperature, allow 1-4 hours to cure and repeat double dip procedure.

Packaging

Pails should be stored in dry and cool rooms for up to 9 months. Protect the material against moisture and direct sunlight. Storage temperature: 5^o-30^oC. Products should remain in their original, unopened containers, bearing the manufacturers name, product designation, batch number and application precaution labels.

Safety measures

Flammable. Please study the Material Safety Data Sheet. **PROFESSIONAL USE ONLY**

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