

## **COLTECH R 3902**

TECHNICAL DATA SHEET

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# Insulating Resin / Varnish Pouring procedure

## **Product description**

COLTECH R 3902 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 3902 is suitable for pouring procedure.

Cures at room temperature.

#### Uses

The COLTECH R 3902 is a specialized impregnating Polyurethane based electroinsulating resin / varnish for secondary insulation of:

· Low and medium voltage transformers, stators and coils

## **Advantages**

- · Cold curing
- · Faster curing, suitable for pouring 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 pour procedure per layer.

Two layers are normally recommended

## Colors

The COLTECH R 3902 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	1-2 hours	
Initial Curing Time	24 hours	Conditions: 23°C, 50%RH
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	<u>+</u>	
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 pour the varnish coil over the coil.

Depending on temperature, allow 30min-2h to cure and repeat pouring 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°-30°C. 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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