COLTECH R 370

TECHNICAL DATA SHEET
Date: 15.03.2015 – Version 3

Transparent Epoxy Resin

Product description

COLTECH R 370 is a two component, solvent free, rigid, transparent, epoxy resin suitable for electro-insulating. It provides excellent durability, chemical resistance properties with minimum shrinkage.

Cures by reaction (cross linking) of the two components at room temperature.

Advantages

- **Solvent free**
- **Shore D 40**
- **Cold curing**
- **Good adhesion to metal, plastics, cables**
- **Excellent hydrolytic stability**
- **Low exothermic reaction temperature**
- **Minimum shrinkage**
- **High impact strength**
- **Chemical and hydrocarbon resistant**

Uses

The COLTECH R 370 is a epoxy electro-insulating resin for:

Multipurpose applications where a transparent, low viscosity resin is needed to offer excellent impregnating qualities with good physical properties- solid.

Consumption

1,1 kg / liter

Colors

Transparent. Note that UV exposure will gradually turn it to yellow

Technical Data *

PROPERTY	RESULTS	TEST METHOD
Composition	Epoxy Resin + Hardener. Solvent free.	
Mixing Ratio	A : B = 100 : 50 by weight	
Hardness (Shore D Scale)	40 + 5	ASTM D 2240
Solids Content	100 %	CALCULATED
Temperature strength	110°C (Fully cured)	IN HOUSE LAB
Low Temperature Brittleness	-10° C (Fully cured)	IN HOUSE LAB
Pot Life	3-4 hours	Conditions:20°C,50%RH
Tack Free Time	1-3 hours	
Initial Curing Time	24 hours	
Final Curing time	7 days	

Chemical Properties

Water	+	Hydrochloric acid 5%	+
Potassium hydroxide 5%	+	Domestic Detergents	+
Sodium hydroxide 5%	+	Dichloromethane	-
Salt water 20%	+	N-methyl pyrrolidone (brake fluid)	-
{+ stable, - unstable, ± stable for a short period.}			

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Application

Cast Housing Preparation
Before casting / filling check that housings or moulds are free of moisture (Maximum surface moisture content should not exceed 4%).

Mixing
Stir COLTECH R 370 Component A well before using. Stir COLTECH R 370 Component B well before using.

COLTECH R 370 Component A and Component B should be mixed by hand, or low speed mechanical stirrer, according to the indicated mixing ratio 100:50 by weight, for about 3 min if applied manually. Both parts (Component A and Component B) have to be mixed at a temperature higher than 5°C.

ATTENTION: The mixing of the components has to be effected very thoroughly, especially on the walls and bottom of the pail until the mixture becomes fully homogeneous.

Casting / Filling

Pour COLTECH R 370 resin into the mould / jacket.

RECOMMENDATION: Use suitable vacuum apparatus to completely remove entrapped air bubbles. The mixing container should have at least 3 to 4 times the height of the resin in order to expand under vacuum. TIP: In order to further decrease air bubbles, pour the mix slowly to a new fresh (2^{nd}) container, and then pour the resin to the mould.
ATTENTION: Please ensure consumption within the Pot Life.

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: 5^0-30^0C. Products should remain in their original, unopened containers, bearing the manufacturers name, product designation, batch number and application precaution labels.

Safety measures

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