

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.

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.

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

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.}			

2510

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 (2nd) 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^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

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

Our technical advice for use, whether verbal, written or in tests, is given in good faith and reflect the current level of knowledge and experience with our products. When using our products, a detailed object-related and qualified inspection is required in each individual case in order to determine whether the product and /or application technology in question meets the specific requirements and purposes. We are liable only for our products being free from faults; correct application of our products therefore falls entirely within your scope of liability and responsibility. We will, of course, provide products of consistent quality within the scope of our General Conditions of Sale and Delivery. Users are responsible for complying with local legislation and for obtaining any required approvals or authorizations. Values in this technical data sheet are given as examples and may not be regarded as specifications. For product specifications contact our R+D department. The new edition of the technical data sheet supersedes the previous technical information and renders it invalid. It is therefore necessary that you always have to hand the current code of practice.