

M.S. POLYMERS & FORMULATORS

Site No.3, Survey No.45/2,
Chikkabidrikallu Village, Tumkur Road, Widia Post
Bangalore 560073.

INSTRUCTION SHEET**P U RESIN MIX & P U HARDENER SYSTEM****TECHNICAL DATA SHEET:****PRODUCTION DESCRIPTION**

A TWO COMPONENT (PU RESIN 775 WITH PU HARDENER 225) , ROOM TEMPERATURE CURE POLYURETHANE COMPOUND, SPECIALLY DEVELOPED FOR POTTING AND ENCAPSULATING OF L T INSTRUMENT TRANSFORMERS

SALES SPECIFICATION:	P U RESIN 775
COLOUR	RED, BLACK , BROWN & NATURAL
VISCOSITY	18000-25000 cps (Brookfield Viscometer) @25°C
SPECIFIC GRAVITY	1.5 gm/cm ³
SHELF LIFE	6 Months (Closed Container)

MIXING RATIO

MIX RATIO BY WEIGHT (P U RESIN 100 gms)	100 : 23 -27 (based on individual requirement of cure & pot life)
MIX RATIO BY WEIGHT (HARDENER 23 to 27 gms)	
POT LIFE OF 1270 gm. Mass	12-18 min @ room temp.
GEL TIME OF 1270 gm.Mass	25 - 30 Min.

CURE SCHEDULE

RECOMMENDED CURE SCHEDULE	72 Hrs. at room temp.
---------------------------	-----------------------

CURED PROPERTIES:

SHORE HARDNESS	75 – 80 D
FLEXURAL STRENGTH Mpa	66
WATER ABSORPTION mgs	15.5
DI ELECTRIC STRENGTH KV/MM	15KV
COMPARATIVE TRACKING INDEX (V.MIN)	>600
TENSILE STRENGTH Mpa	39.6
ELONGATION AT BREAK %	5.4
IMPACT STRENGTH edgewise, KJ/m ²	3.2
VOLUME RESISTIVITY, ohm-cm ²	3.2
MARTEN'S temperature of deflection, martens °C	60

APPLICATIONS

1 PU resin mix used with PU hardener is predominantly used for making LT insulators and LT switchgear components of high Mechanical strength.

2 Insulating compounds

3 Ignition coils etc.,

4 LT Current and Voltage transformers

5 Impregnation for choke coil

6 Cable jointing up to 11kv

STORAGE AND HANDLING

The PU Resin mix and PU Hardener, when stored in their original containers in dry atmospheric room temperature as in indoor sheds, will have a minimum shelf life of 6 months. Both the PU Resin & PU Hardener should not come into contact with moisture during storage or application. **Contact with moisture generates foaming of the product** & weakens the bond line. Hence care should be taken to ensure that containers should be sealed properly & protected against humidity.

CLEANING OF EQUIPMENT

ONCE THE PU RESIN MIX AND PU HARDNER SETS & BECOMES HARD, IT IS VERY DIFFICULT TO CLEAN IT , BEFORE THIS OCCURS, THE CONTAINER SHOULD BE CLEANED WITH A SOLVENT LIKE TOLUENE, XYLENE OR ACETONE.

MS Polymers & Formulators

No.2&3 , Site Nos.7&8 , Dalmia Estate , Chickabiderikallu Village , Widia Post, Tumkur Road, Bangalore – 560 073

Tel : 080 65327343 ; Telefax : 080 28399066

email : info@mspolymers.in ; mspolymers@rediffmail.com

