



## PRODUCT DATA SHEET

# "RD" RE-ENTERABLE POLYURETHANE ENCAPSULATING COMPOUND

### 1. DESCRIPTION

RD Re-Enterable Encapsulant is a two component polyurethane compound which provides excellent moisture and electrical insulation protection for telecommunication cable splices. This system has been designed to meet AT&T specification AT-8735 and TA-TS4-000354; Illinois Bell TS-000-100-001, and GTE EPP A-031-00. RD Re-Enterable Encapsulant provides easy handling and contains no TDI or Moca.

### 2. KEY FEATURES

- Easily Mixed and Poured
- Room Temperature Curing
- Easy to Re-Enter
- High Impact Strength
- Superior Hydrolytic Stability
- Non-Expanding
- Minimal Exotherm
- Fast Setting
- Excellent Splice Penetration
- Bonds to Itself when Closures are Refilled
- Low Water Absorption
- Low Weight Loss
- High Volume Resistivity

### 3. SUGGESTED APPLICATIONS

- Telecommunications Encapsulation
  - Electronic and Electrical Encapsulation
- Electronic and Electrical Potting
- Specialized Packaging and Shipping Aids
- Vibration Dampening Pads
- Health Care Aids
- Marine Encapsulations
- Prototype Molding Aids

### 4. SHELF LIFE

Shelf life of RD Re-Enterable Encapsulant is eighteen (18) months from shipping date, provided it is stored in a cool, dry area in unopened containers.

### 5. PRECAUTIONS

Isocyanates are irritating to the skin, eyes, and respiratory tract, and when inhaled may cause damage to the mucous membranes. Allergic sensitization from exposure to poly isocyanates is known to occur in some individuals. Normal handling precautions must be strictly enforced when large amounts of material are used, including proper ventilation and the use of protective goggles, gloves and rubber aprons. In case of skin contact, wash immediately with soap and water. If an irritation persists after a thorough washing, medical attention should be obtained. In case of eye contact, flush eyes immediately with water and immediately contact physician. Wash contaminated clothes before reuse and wash hands before eating or smoking. Any spills should be covered with an absorbent material and treated with a diluted aqueous solution of ammonium hydroxide, or an alcohol (isopropyl or Ethyl) and water solution before disposal. For additional information, please consult the Material Safety Data Sheet.

### 6. TECHNICAL SERVICE

Technical assistance is available by contacting Preformed Line Products' Technical Service Department.

### 7. WARRANTY

The statements made herein are based on our research and the research of others and are believed to be accurate. No guarantee of their accuracy is made, however. Because of variables beyond the manufacturer's control which may effect results, the manufacturer makes no warranty of any kind, express or implied, including that of merchantability, other than that the product conforms to its applicable current specifications. If breach of warranty is established, the buyer's exclusive remedy shall be repayment of the purchase price, or, at the manufacturer's option, replacement of the non-conforming product. The buyer expressly waives any claim to additional damages, including consequential damages. Warranty claims void unless made in writing within thirty (30) days after purchase. Warranty runs exclusively to the benefit of original buyer.

**8. PHYSICAL PROPERTIES (TYPICAL) RD-2 RE-ENTERABLE ENCAPSULANT**

PROPERTY	RESULT	TEST METHOD
Mix Ratio (By Weight)		
Part-A	83	
Part-B	17	
Mix Ratio (By Volume)		
Part-A	5.33	
Part-B	1.00	
Specific Gravity		
Part-A	0.91	ASTM D-1638
Part-B	1.00	ASTM D-1638
Cured	0.92	ASTM D-792
Viscosity - CPS		
Part-A	1470	Brookfield Viscometer @ 40°F
Part-B	700	Brookfield Viscometer @ 40°F
Pour Point		
Part-A	-4°F	ASTM D-97
Part-B	-6°F	ASTM D-97
Isocyanate Content	7.0%	ASTM D-2572
Tensile Strength - PSI	18.4	ASTM D-412
Tear Strength - Die C	11.0 lbs/in @ 0°F	ASTM D-624
	2.3 lbs/in @ 75°F	
Corrosion of Copper	Non Corrosive	WE MS-17000, SECTION 1139
Hydrolytic Stability	1.14% Wt. Loss	WE AT-8735
Peak Exotherm	90°F	WE AT-8735
Water Absorption	0.10% Wt. Gain	ASTM D-570 (7 DAYS @ 75°F)
Water Sensitivity	0%	WE AT-8735
Dry Heat Aging	+0.15%	WE AT-8735 (21 DAYS @ 212°F)
Fungi Resistance	No Growth	ASTM G-21
Gel Time	35 min. @ 75°F	WE AT-3735
	70 min @ 40°F	WE AT-3735
Volumetric Expansion	0%	WE AT-8735
Polyethylene Stress Cracking	No Cracks Detected	WE AT-8735
Polycarbonate Stress Cracking	No Cracks Detected	WE AT-8735
Coating Conductor Pull-Out	2.01 Kg.	WE AT-8735
Insulation Resistance	3.9 x 10 <sup>11</sup> OHMS	WE MS-17000, SECTION 1182
Dielectric Constant	@ 1KHZ 3.8	ASTM D-150
Dissipation Factor	@ 1 KHZ 0.0045	ASTM D-150
Volume Resistivity	4.6 X 10 <sup>12</sup> OHM-CM	ASTM D-257

\* Tear Strength After Heat Aging For 21 Days @ 212°F