

Technical Data:

Issued: Sept. 2005

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U 233

Two-Component Low Viscosity Potting and Casting Semi-flexible Polyurethane Compound

Product Description

U 233 is a two-component, low viscosity, semi-flexible PU compound for potting, casting and encapsulating. U 233 exhibits good mechanical and electrical properties. Pot life can be varied in wide range upon customer request.

Features & Benefits

- Flexible pot life
- Good adhesion to metals and ceramics
- Suitable for manual and automatic mixing
- Semi-flexible
- High electrical and mechanical properties

Applications

Electrical and Electronic Potting and Encapsulating

Typical Uncured Physical Properties

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Base Resins	U 233 (A) UC 138 (B)	Polyol mixture Isocyanate
Appearance/Color	U 233 (A) UC 138 (B)	Transparent/Black Amber
Viscosity @ 25°C, mPa*s per ASTM-D-2196	U 233 (A) UC 138 (B)	400-700 150-250
Density @ 25°C, g/cm³	U 233 (A) UC 138 (B)	1.05 ± 0.02 1.20 ± 0.02
Mix Ratio A:B (w/w)	100:45	
Mix Viscosity @ 25°C, mPa*s per ASTM-D-2196	300-500	
Pot life @ 25°C, 100g, min	15-20	
Gel-time @ 25°C, (100g), min	25-40	
Curing time @ 25°C, hr	24	

Instructions for use:

Stir compound U 233 thoroughly in the original container prior to use

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Typical Cured Properties

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Color	Off-White/Black
Final properties @ 25°C, days	>7
Hardness, ASTM –D-2240, Shore A	85-95
Hardness, ASTM –D-2240, Shore D*	30-60
Tensile Strength, ASTM-D-638, MPa	8-17
Tensile Elongation, ASTM-D-638, %	50-70
Service Temperature, °C	-40 to 90

- Maximum Shore D obtained after 7 days.

Storage

Store products at 15-30°C for maximum shelf life.

Packaging

Packaging sizes are available from 1L up to 5L jerricans.

Shelf Life

These products have a shelf- life of 9 months in their unopened original containers.

Limitation of Liability

Except where prohibited by law, Polymer-G and seller will not be liable for any loss or damage arising from the Polymer-G product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.