



# POLYCOAT PRODUCTS

A Division of American Polymers Corp.

## TECHNICAL DATA SHEET

### POLYCOAT PC 90-25

*Polyester Diol*

#### Product Description

POLYCOAT PC 90-25 is a high molecular weight polyester diol that can be used either alone or in conjunction with other curatives to produce quality elastomers from a variety of polyester prepolymers. Used alone, most prepolymers yield durometers in the 50 to 60 Shore A range. Higher performance elastomers in a variety of durometers can be achieved from polyester MDI prepolymers by blending in various proportions with 1, 4 Butanediol. Blends of PC 90-25 with MOCA can produce similar results with TDI polyester prepolymers. The vulcanizates exhibit the following characteristics:

- Good abrasion resistance
- Good tear
- Suitable for FDA wet or dry applications
- Variable Resilience

#### Mixing

At room temperature, this curative is a white, waxy solid that must be melted for appropriate processing. To prepare for use, place the containers in a 158 °F (70 °C) oven until the contents are melted.

#### CURATIVE SPECIFICATIONS

**Equivalent weight** 495 – 510

**Appearance @ 77°F** Waxy solid

**Viscosity, cps @ 158°F** 180 - 250

**Specific Gravity @ 77°F** 0.94

**Moisture content, %** <0.09

#### PROCESSING

**Prepolymer Temperature** 180 - 200°F  
82.2 - 93.3°C

**Curative Temperature** 130 - 240°F  
54.4 - 115.6 °C

**Curative Mole Ratio  
(in blends)** 0.1 - 1.0

**Cure** 1 hr @ 240°F (115.6°C)

**Post Cure** 16 hrs@240°F (115.6°C)



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