



# POLYCOAT PRODUCTS

A Division of American Polymers Corp.

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## TECHNICAL DATA SHEET

### PC 536-80A-M5-25M-NAT

#### Typical Properties PC 536-80A-M5 A-COMP (ISO)

NCO, %: 22.7-23.2  
Viscosity, mPa-s @ 25°C: 600-1100  
Specific Gravity @ 25°C : 1.21  
Appearance @ 25°C: liquid

#### Typical Properties PC 536-80A-M5 B COMP (polyol blend)

Viscosity, mPa-s @ 25°C: 700-900  
Specific Gravity @ 25°C : 1.02  
Appearance @ 25°C: viscous liquid

#### Product Description:

PC 536-80A is a two-component, 100% solid Elastomeric Urethane system designed for processing by either hand mix or typical polyurethane dispensing equipment. Recommended uses include; Automotives parts, sporting goods, tooling, or applications where superior tensile strength, elongation, and high-resilience are required with a Shore A hardness of 80

#### Storage and Handling:

Containers for both A and B components should be kept tightly closed to prevent moisture contamination. Do not reseal if contamination is suspected. Use of a dry nitrogen blanket for partial drums is recommended. Component B may be stored at ambient temperatures. Storage for Component A should be maintained between 77°F (25°C) and 95°F (35°C). For best results, this product should not be allowed to freeze, although it may be re-heated in a well ventilated oven for a period of time to re-liquefy solid particles. To avoid product degradation, product temperature during re-heating should not exceed 140°F (60°C). An additional note of caution is that exposure to temperatures over 400°F (204°C) can create excessive pressure potentially causing containers to rupture. Do not breathe aerosol or vapors and avoid contact with skin and eyes. Exposure to vapors of heated MDI can be dangerous. To heat product properly, use well ventilated convection ovens or other methods that distribute heat evenly. Avoid using drum heaters or other heat sources that may cause excessive local heating.

#### Health and Safety Information:

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling any of the products listed above. Before working with these products, it is your responsibility to read and become familiar with the available information on its hazards, proper use and handling. This is extremely important and cannot be overemphasized. Information is available in several forms, e.g. material safety data sheets and product labels. To obtain this information, contact yours Polycoat Products representative.

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#### Typical Physical Properties

Hardness	Shore A	78-82
Resilience	% Rebound	52
Split Tear Strength	PLI	NA
Die C Tear Strength	PLI	350-400
Tensile Strength	PSI	1700-2200
Ultimate Elongation	%	220-300

#### Processing Characteristics

Mix ratio by weight A/B		30/70
A component temperature	°F	90-100
B Component temperature	°F	80-100
Mold temperature	°F	90-150
Gel time*, 74 °F	MINUTES	20-23
<i>*Variety of gel times available</i>		