



**PRE-POL® PC 60-90**  
**Material Data Sheet**

**PRE-POL® PC 60-90**  
**(TDI) Terminated Polyether Polymer**

**Typical Properties**

- NCO%, 5.25 – 5.65%
- Viscosity, poise @ 212°F (100°C) 0.7 – 2.5
- Appearance @ 77°F (25°C): Viscous liquid
- Flash Point, Cleveland Open Cup >380°F

**Product Description:**

**PRE-POL® PC 60-90** is a TDI terminated polyether prepolymer for use in medium performance elastomers, elastomeric coatings and adhesives. As with all polyurethane products, application and field testing are necessary to determine suitability of the product combination for specific application.

**Storage and Handling:**

Containers should be kept tightly closed to prevent moisture contamination. TDI will react with water to liberate CO<sub>2</sub> gas potentially causing containers to expand and rupture. Do not reseal if contamination is suspected.

Use of a dry nitrogen blanket for partial drums is recommended. Storage for **PRE-POL® PC 60-90** should be maintained in a cool, dry place at ambient temperatures.

Exposure to temperatures over 350°F (177°C) can create excessive pressure potentially causing containers to rupture. Do not breathe aerosol or vapors and avoid contact with skin and eyes. Use protective equipment including respirator when handling heated TDI a handling as exposure to vapors of heated TDI can be dangerous. To heat product properly, use well ventilated convection ovens. Avoid using drum heaters.

**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 your **Polycoat Products** representative.

<u>Typical Physical Properties</u>	<u>ASTM</u>	<u>Using</u>	<u>MOCA</u>
Hardness	-	Shore A	90 +/- 3
Bashore	-	% Rebound	26
Split Tear Strength	ASTM D-470	PLI	165 +/- 20
Die C Tear Strength	ASTM D-624	PLI	440 +/- 50
Tensile Strength	ASTM D-412	PSI	3400 +/- 300
Ultimate Elongation	ASTM D-412	%	380 +/- 40
100% Modulus	ASTM D-412	PSI	1180 +/- 30
300% Modulus	ASTM D-412	PSI	2150 +/- 50

<u>Processing Characteristics</u>	<u>Using</u>	<u>MOCA</u>
NCO	%	5.44
Curative	PPH	16.4
Stoichiometry	%	95
Prepolymer Temperature	°F	212°F
Curative Temperature	°F	240°F
Pot Life	minutes	6 +/- 1
Demold Time	minutes	60
Postcure Cycle 212°F (100°C)	hours	16

**Limited Warranty:**

***Please read all information in the general guidelines, product data sheets, guide specifications and material safety data sheets (MSDS) before applying material. Published technical data and instructions are subject to change without notice. Contact your local Polycoat Products representative or visit our website for current technical data and instructions.***

Polycoat Products warrants its products to be free of manufacturing defects and that they will meet Polycoat Products current published physical properties. Polycoat Products warrants that its products, when properly installed by a state licensed waterproofing contractor according to Polycoat Products guide specifications and product data sheets over a sound, properly prepared substrate, will not allow water migration for a period of one (1) year. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product of this manufacturer which proves to be defective. There are no other warranties by Polycoat Products of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. Polycoat Products shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. Polycoat Products shall not be responsible for use of this product in a manner to infringe on any patent held by others. In addition, no warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded from the limited warranty. Polycoat Products reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.

**Disclaimer:**

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the users responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and Polycoat Products makes no claim that these tests or any other tests, accurately represent all environments.