



**POLYCOAT
PRODUCTS**

A Division of American Polymers Corp.

POLYCOAT PC 90-25

Material Technical Data Sheet

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

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, °F	180 – 200
Curative Temperature, °F	130 – 240
Curative Mole Ratio (in blends)	0.1 – 1.0
Cure	1 hr@240°F
Post Cure	16 hrs@240°F

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 oven until the contents are melted.

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:

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 user's 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.

PC 90 – 25 Material Technical Data Sheet