



POLYCOAT PRODUCTS

A Division of American Polymers Corp.

GREATER LOS ANGELES-14722 Spring Avenue - Santa Fe Springs, CA 90670
DALLAS / FT.WORTH METROPLEX-2100 Reliance Parkway - Bedford, TX 76021

Tel: (562) 802-8834
Fax: (562) 921-7363

www.Polycoat.com

TECHNICAL PRODUCT DATA

POLYCAST 70D

Typical Properties POLYCAST 70D A-COMP (ISO)

Viscosity, mPa·s @ 25°C: 100-120
Specific Gravity @ 25°C : 1.044
Appearance @ 25°C: liquid

Typical Properties POLYCAST 70D B-COMP (polyol blend)

Viscosity, mPa·s @ 80°C: 100-120
Specific Gravity @ 25°C : 0.996
Appearance @ 25°C: liquid

Typical Physical Properties		
Hardness, ASTM D-2240	Shore D	68-72
Density, ASTM D-1622	Lbs/ft ³	67
Elongation, ASTM D-2370	%	15
Tensile Strength, ASTM D-2370	PSI	5500

Product Description:

Polycast 70D is a solid cast two-component urethane system that is easy to process, is low exotherm and de-molds in 3-6 minutes making rapid production rates possible. It is available in Shore D from 55-80 and both tan and white colors. It can also be pigmented for specific colors.

Uses:

Furniture parts, sporting goods, decorative components, ornamental moldings, mirror and picture frames, and other similar items not requiring high temperature resistance.

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.

Processing Characteristics		
Mix ratio by weight A/B		50/50
Shrinkage (linear) unfilled	In.	0.01
Shrinkage (linear) Filled	In.	0.005
Gel Time*	Seconds	120-180
Demold Time	Minutes	5-8
<i>* Variety of gel times available</i>		



**POLYCOAT
PRODUCTS**

A Division of American Polymers Corp.

GREATER LOS ANGELES—14722 Spring Avenue - Santa Fe Springs, CA 90670
DALLAS / FT.WORTH METROPLEX—2100 Reliance Parkway - Bedford, TX 76021

Tel: (562) 802-8834
Fax: (562) 921-7363

www.Polycoat.com

TECHNICAL PRODUCT DATA

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.

WARRANTY: The information herein is believed to be accurate and reliable as of the date of issuance, but is subject to change without prior notice. It is up to the User to contact Polycoat Products to verify the correctness prior to ordering or specifying this product. Polycoat Products warrants this product for merchantable quality only, does not warranty against unknown risks that may or may not be present, nor do we assume any responsibility for coverage, performance, or injuries resulting from the use of this product. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY POLYCOAT PRODUCTS EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OR LAW, OR OTHERWISE, INCLUDING MARKETABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Failure to strictly adhere to recommended procedures shall relieve POLYCOAT PRODUCTS of all liability with respect to the product or the use thereof. The buyer assumes all risks whatsoever as to the use of these products and the Buyer's exclusive remedy as to any breach of warranty or negligence claim shall be limited to the purchase price of the materials and agrees that any and all litigation proceedings shall be according to the laws of California and shall be filed in the County of Santa Fe Springs, CA. Each person, firm, or corporation engaged in the application installation, disposal or any other use of the any of these products shall carefully determine whether there is a potential hazard associated with such product in a specific usage, and utilize all appropriate precautionary and safety measures as outlined in Local, State and Federal regulations governing the use or disposal of these products or the construction and/or renovation of structures.