



**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
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www.Polycoat.com

TECHNICAL DATA SHEET

U1600-NATURAL

Typical Properties U1600 A COMP (ISO)

Viscosity, mPa·s @ 25°C: 150-200
Specific Gravity @ 25°C : 1.23
Appearance @ 25°C: Liquid clear

Typical Properties U1600 B POLY (polyol blend)

Viscosity, mPa·s @ 80°C: 700-800
Specific Gravity @ 25°C : 1.04
Appearance @ 25°C: Liquid clear

Product Description:

U1600 polyurethane foam systems are designed for molding and void filling application. U1600 can be designed to meet a variety of reactivity requirement without sacrificing product quality and can be formulated to a wide range of densities from 6 to 20 pounds per cubic foot. The unique handling characteristics of the U1600 series system provide ease of mixing by hands or machine to produce a uniform product with excellent cell structure. This product does not contain any CFC blowing agent or other Ozone Depleting chemical.

The U1600 series systems have been formulated for use in the manufacturing of molded picture frames, furniture parts, structure floats and other design application.

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.

Rigid Polyurethane Foam System

Typical Physical Properties		
Density, pcf	ASTM-1638	16
Compressive Strength, psi (perpendicular)	ASTM-1621	450
Tensile Strength, psi	ASTM-1623	400- 450
Shear Strength, psi	ASTM C-273	180-220
Processing Characteristics @ 74° F		
Ratio, By weight A/B		52/48
Cream Time	Sec	60-66
Rise Time	Sec	160-200
Demold Time	Min	5-15



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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.