



**POLYCOAT  
PRODUCTS**  
A Division of American Polymers Corp.

**THEMECOAT® 10#**  
*Rigid Polyurethane  
Foam System  
Data Sheet*

## THEMECOAT® 10#

### TYPICAL PROPERTIES 10# (ISO)

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

### TYPICAL PROPERTIES 10# (POLYOL BLEND)

Viscosity, mPa·s @ 80°C:	700-1100
Specific Gravity @ 25°C :	1.04
Appearance @ 25°C:	viscous liquid

### DESCRIPTION

Themecoat® 10# polyurethane foam systems are designed for molding and void filling application. Themecoat® 10# 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 4 to 25 pounds per cubic foot. The unique handling characteristics of the Themecoat® 10# 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 Themecoat® 10# 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.

### TYPICAL PHYSICAL PROPERTIES

Density, pcf	ASTM-1638	10
Compressive Strength, psi	ASTM-1621	400
Tensile Strength, psi	ASTM-1623	350
Shear Strength, psi	ASTM C-273	220

### PROCESSING CHARACTERISTICS @ 74° F

Ratio, By Volume A/B		50/50
Cream Time	Sec	8-10
Rise Time	Sec	36-42
Demold Time	Min	5-10

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 your Polycoat Products representative.

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*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.*

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