



# ROOFARMOR

**DTM**

**Polyurea-Urethane High Performance Coating**

### Typical Properties ROOFARMOR-DTM A (Isocyanate)

Viscosity, mPas @ 25° C	500-600
Specific Gravity @ 25° C	1.25
Wt./gallon @ 25° C lbs/gal	10.4
Appearance @ 25°C:	viscous liquid

### Typical Properties ROOFARMOR-DTM B (Resin Polyol)

Viscosity, mPas @ 25° C	550-750
Specific Gravity @ 25°C:	0.984
Wt./gallon @ 25° C lbs/gal	8.2
Appearance @ 25°C:	viscous liquid

### Product Description:

RoofArmor-DTM is a 100% solids aromatic polyurethane-urea hybrid coating designed to be an elastomeric coating for all substrates, providing excellent chemical and abrasion resistance.

### Unique Properties:

RoofArmor-DTM combines the processing advantages of a polyurea with the economical performance of a polyurethane coating.

- Improved low temperature flexibility
- Improved tensile and elongation properties
- Lower sensitivity to moisture during application
- Improved low temperature cure
- Aluminum UV resistance

### Application:

RoofArmor-DTM can be built up to any thickness. A minimum of 30 mils in two passes is recommended for exterior applications.

### Basic Uses:

- Waterproofing for DTM (Direct To Metal) and Spray Polyurethane Foam Roofing (SPFR)
- Secondary containment coating to provide a chemical resistant membrane over prepared concrete and steel
- Gasoline and chemical resistance for Styrofoam flotation
- Abrasion resistance over wood, metal and concrete.
- Water and chemical resistance for ICF block, concrete Block and poured concrete walls.

### 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. Component A should be stored 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.

Typical Physical Properties		
Hardness	Shore A	66-72
Elongation, 25° C	%	420-480
Tensile Strength 25° C	PSI	1500-1600
Tear, Die C	PLI	200-230
Taber Abrasion, CS-17 wheel, 1000gr. Load		11.4 mg lost/1000 cycles
Water Absorption, 75 ° F 30 days	%	2
Moisture Vapor Transmission (30 mils)	(ASTM-E-96) Procedure B	<0.030 US Perms
Practical coverage @ 50 mils		3 gallons/100 SF
Processing Characteristics		
Solids by weight and volume	%	100
Mix ratio by volume		1:1
Gel time @ 74°F	Sec.	5-7
A Component temperature	°F	130-140
B Component temperature	°F	140-150
Line Temperature	°F	135-145
Service Temperature	°F	-20 to 225
Pressure (dynamic)	PSI	1900-2100
Note: Resin(B) must be warm and well mixed PRIOR to processing		

### 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 Polysource representative.



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