



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

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PRODUCT DATA SHEET

PSE 70D-FR-SMOOTH-12S-NAT Polyurethane High Performance Coating

Typical Properties PSE 70D-FR-SMOOTH A (ISO)

Viscosity, mPas @ 25° C	150-250
Specific Gravity @ 25° C	1.20
Wt./gallon @ 25° C lbs/gal	10.0
Appearance @ 25°C:	liquid

Typical Properties PSE 70D-FR-SMOOTH B (polyol blend)

Viscosity, mPas @ 25° C	350-450
Specific Gravity @ 25°C:	1.04
Wt./gallon @ 25° C lbs/gal	8.66
Appearance @ 25°C:	viscous liquid

Product Description:

PSE 70D-SMOOTH-FR is a two-component, one hundred percent solids, sprayable polyurethane elastomeric coating. This product provides a monolithic membrane that exhibits excellent resistance to water, chemicals, and abrasion. This FR version is self-extinguishing.

Applications:

The PSE 70D-SMOOTH-FR system is designed for use as a coating over spray applied urethane foam, Styrofoam, steel, and other metals, concrete, wood, and other substrates. The seamless monolithic membrane functions as an impact resistant protective surface.

Storage and Handling:

Containers for both A and B components should be kept tightly close 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.

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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.

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Typical Physical Properties

Hardness	Shore D	65-70
Elongation, 25° C	%	20-30
Tensile Strength 25° C	PSI	3500-4000
DIE C	PLI	330-380
Taber Abrasion c17, 1000g		35.2 mg lost 1000 cycles
Permeability @ 50mils		0.03 perms

Processing Characteristics

Solids by weight and volume	%	100
Mix ratio by volume		1:1
Dry time to touch		10-17 sec
Processing temperature A comp	°F	120-140
Processing temperature B comp	°F	120-140
Line Temperature	°F	110-130