



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

PRODUCT DATA SHEET

PSE 4170A-SILVER

POLYUREA-URETHANE HIGH PERFORMANCE COATING

Typical Properties PSE-4710A-SILVER A (ISO)

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

Typical Properties PSE-4170A-SILVER B

(polyol blend)

Viscosity, mPas @ 25° C	650-850
Specific Gravity @ 25°C:	0.984
Wt./gallon @ 25° C lbs/gal	8.2
Appearance @ 25°C:	viscous liquid

Product Description:

PSE 4170A-Silver is a 100% solids polyurethane-urea hybrid coating. PSE 4170A-SILVER is an aromatic coating designed to be an elastomeric coating for all substrates, providing excellent chemical and abrasion resistance.

Unique Properties:

PSE 4170A-Silver 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:

- We've shot on multiple surfaces and 4170A performs as well as 30 mils on smooth surfaces as does at 100-125 mils and beyond on rough surfaces/joints with or without reinforcement. As such, we have a problem with your stipulation of "a minimum of 60 mils in tow passes is recommended for exterior applications" as per the current TDS. Would like to see "a minimum of 30 mils in 2 passes..."
- Now for a second and still as yet only a "potential" application, that of foundation coatings—do we have any MVT (moisture vapor transmission) data on 4170A?

Basic Uses:

- Water proofing for DTM (Direct To Metal) and Urethane (SPF) foam roofing
- Secondary containment coating-provides a chemical resistant membrane over prepared concrete and steel.
- Gasoline and chemical resistance for Styrofoam flotation
- Abrasion resistance over wood, metal and concrete.

Typical Physical Properties

Hardness	Shore A	68A-73A
Elongation, 25° C	%	330-400
Tensile Strength 25° C	PSI	1300-1500
Tear, Die C	PLI	140-160
Taber Abrasion, CS-17 wheel, 1000gr. Load		11.4 mg lost/1000 cycles
Water Absorption, 75° F 30 days	%	2
Practical coverage @ 30 mils		3 gallons/100 sq ft

Processing Characteristics

Solids by weight and volume	%	100
Mix ratio by volume		1:1
Gel time	Sec.	5-7
A component temperature	°F	120-140
B component temperature	°F	140-160
Line Temperature	°F	110-130



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- -Water and chemical resistance for ICF block, concrete block and poured 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. 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.

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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