



POLYCOAT PRODUCTS

A Division of American Polymers Corp.

GREATER LOS ANGELES-14722 Spring Avenue - Santa Fe Springs, CA 90670
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Tel: (562) 802-8834
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www.Polycoat.com

PRODUCT DATA SHEET

PSE 5101-20S-GREY

Polyurea-High Performance Coating

Typical Properties PSE 5101 A (ISO)

Viscosity, mPas @ 25° C	800-1000
Specific Gravity @ 25° C	1.10
Wt./gallon @ 25° C lbs/gal	9.17
Appearance @ 25°C:	liquid

Typical Properties PSE 5101 B (polyol blend)

Viscosity, mPas @ 25° C	600-700
Specific Gravity @ 25°C:	1.02
Wt./gallon @ 25° C lbs/gal	8.5
Appearance @ 25°C:	viscous liquid

Product Description:

PSE 5101 is a 100% solids, 100% polyurea coating. PSE 5101 is an aromatic coating designed to be an elastomeric protective coating for all substrates, providing excellent chemical and abrasion resistance.

Unique Properties:

PSE 5101 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

Applications:

PSE 5101 can be built up to any thickness. A minimum of 50 mils in two passes is recommended for exterior applications. Lower film thicknesses are acceptable if a light-stable top-coat is used.

Basic Uses:

- Truck Bedliner
- Secondary containment coating (provides a chemical resistant membrane over concrete and steel in approved tank farms)
- Gasoline and chemical resistance for Styrofoam flotation
- Abrasion resistance over wood, metal and concrete
- Waterproofing wood and foamed plastics
- Water and chemical detergent resistance for concrete block and poured walls.

Typical Physical Properties

Hardness, ASTM D-2240	Shore A	96 ± 2
Hardness, ASTM D 2240	Shore D	51 ± 2
Elongation, 25° C, ASTM D-412	%	250-400
Tensile Strength 25° C, ASTM D-412	PSI	3350
Tear Strength, ASTM D-624	PLI	400-450
Theoretical coverage@ 16 mils		100ft ² /gal
Practical coverage@ 50 mils		100ft ² /3gal

Processing Characteristics

Solids by weight and volume	%	100
Mix ratio by volume		1:1
Dry time to touch		10-30 sec
Temperature For A comp	°F	115 -130
Temperature For B comp	°F	115 - 130
Line Temperature	°F	110 - 130



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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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