

Product Description

PSE 5277D-Black is a 100% solids, 100% polyurea hybrid coating. PSE 5277D is an aromatic coating designed to be an elastomeric protective coating for all substrates, providing excellent chemical and abrasion resistance.

Properties

PSE 5277D-Black combines the processing advantages of a polyurea with the economical performance of a polyurethane coating.

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

Applications

PSE 5277D-Black 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-stables top-coat is used.

Typical Uses

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

Storage and Handling

Containers for both Side-A and Side-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. Side-B may be stored at ambient temperatures. Storage for Side-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

Typical Properties Side-A (ISO)

Viscosity @ 77°F (25°C)	1000-1200 cps
Specific Gravity @ 77°F (25°C)	1.10
Wt./gallon @ 77°F (25°C)	9.17 lbs/gal
Appearance @ 77°F (25°C)	liquid

Typical Properties Side-B (polyol blend)

Viscosity @ 77°F (25°C)	1000-1200 cps
Specific Gravity @ 77°F (25°C)	1.02
Wt./gallon @ 77°F (25°C)	8.5
Appearance @ 77°F (25°C)	viscous liquid

Typical Physical Properties

Hardness, Shore D	70- 77
Elongation, 77°F (25°C)	100-150%
Tensile Strength	4200-5000 psi (29-34.5 MPa)
Permeability @ 50mils	0.03 perms
Tear Strength, ASTM D624	450-550pli (78.9-96.4 kNm)
Theoretical Coverage@ 16 mils	100ft ² /gal
Practical Coverage@ 50 mils	100ft ² /3gal
Water Absorption, 25°C 30days	3%

Processing Characteristics

Solids by Weight and Volume	100%
Mix Ratio by Volume	1:1
Dry Time to Touch	30-50 sec



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

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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