

### Product Description

PSE 55D-BLACK is a two-component, one hundred percent solids, sprayable Polyurea-Hybrid elastomeric coating. This product provides a monolithic membrane that exhibits excellent resistance to chemicals, and abrasion.

### Applications

The PSE 55D-BLACK 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.

### 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.

#### Typical Properties PSE 55D A (ISO)

|                                |               |
|--------------------------------|---------------|
| Viscosity @ 77°F (25°C)        | 900-1000 mPas |
| Specific Gravity @ 77°F (25°C) | 1.20          |
| Wt./gallon @ 77°F (25°C)       | 10.0 lbs/gal  |
| Appearance @ 77°F (25°C)       | liquid        |

#### Typical Properties PSE 55D B (polyol blend)

|                                |                |
|--------------------------------|----------------|
| Viscosity @ 77°F (25°C)        | 1000-1200 mPas |
| Specific Gravity @ 77°F (25°C) | 1.04           |
| Wt./gallon @ 77°F (25°C)       | 8.66           |
| Appearance @ 77°F (25°C)       | viscous liquid |

#### Typical Physical Properties

|                               |                                  |
|-------------------------------|----------------------------------|
| Hardness, Shore D             | 53-57                            |
| Elongation, 77°F (25°C)       | 160-200%                         |
| Tensile Strength, 77°F (25°C) | 2800-3000 psi<br>(19.3-20.7 MPa) |
| Permeability @ 50mils         | 0.03 perms                       |

#### Processing Characteristics

|                                  |                        |
|----------------------------------|------------------------|
| Solids by Weight and Volume      | 100%                   |
| Mix Ratio by Volume              | 1:1                    |
| Gel Time, 77°F (25°C)            | 6-8 sec                |
| Dry Time to Touch                | 10-20 sec              |
| Processing Temperature<br>A Comp | 120-140°F<br>(49-60°C) |
| Processing Temperature<br>B Comp | 120-140°F<br>(49-60°C) |
| Line Temperature                 | 110-130°F<br>(43-54°C) |



**Limited Warranty:** Please read all information in the General Guidelines, Technical Data Sheets, Guide Specifications and Safety Data Sheets (SDS) before applying material. These products are for professional use only and preferably applied by professionals who have prior experience with the Polycoat Products materials or have undergone training in application of Polycoat Products materials. Published technical data and instructions are subject to change without notice. Contact your local Polycoat Products representative or visit our website for current technical data, instructions, and project specific recommendations.

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