ELASTAFLEX™ HP UB is a unique blend of aliphatic and aromatic polymer chemistry with greater color/gloss retention and is more UV resistant than aromatic polyureas*. ELASTAFLEX™ HP UB is a very economical 100% pure polyurea which exhibits very high tensile strength and elongation. ELASTAFLEX™ HP UB was stretched to twice the samples original length at 30 times per minute, more than 530,000 times before breaking. ELASTAFLEX™ HP UB is formulated with SPI’s cutting-edge ULTRA BOND™ technology. SPI’s advanced ULTRA BOND™ chemistry is coined “the duct tape molecule”. ULTRA BOND™ has the unique advantage of adhering to most properly prepared organic and inorganic (new and aged) surfaces without requiring a primer. Like duct tape, ELASTAFLEX™ HP UB with Ultra Bond™ gains adhesion over time.

**FEATURES**

- ELASTAFLEX™ HP UB is available with SPI’s cutting-edge Ultra Bond™ technology. SPI’s advanced Ultra Bond™ chemistry is coined “the duct tape molecule”. Ultra Bond™ has the unique advantage of adhering to most properly prepared organic and inorganic (new and aged) surfaces without requiring a primer. Like duct tape, ELASTAFLEX™ HP UB with Ultra Bond™ gains adhesion over time.
- As with most coatings, there is a re-coat window that presents a lack of inter-coat adhesion. The UB™ molecule mitigates this risk during installation.
  - Manufactured with high pigment loading for enhanced color stability and gloss retention.
  - Extended gel time for better flow-out providing a smooth, more uniform finish and better substrate penetration.
  - Forms a monolithic membrane that can be handled and walked on within minutes from the time it's sprayed.
  - Compliant with FDA/USDA for incidental food contact.
  - ELASTAFLEX™ HP UB liner is very supple with minimal shrinkage.
  - Class 1 Fire Rating: ASTM E84-97a complies with NFPA and UBC.
  - 100% solids, no solvents, and zero VOCs.

**RECOMMENDED USES**

- Liner for concrete tanks, ponds, lagoons, reservoirs, dikes, tunnels, barges, etc.
- Roof coating used over metal, polyurethane foam, concrete, and certain single ply membranes.
- Coating for steel or other substrates exposed to corrosion.
- Encapsulation for EPS or other types of flotation materials.
- Replace or repair failed existing sheet membrane liners, steel tanks, silos, and pipes.
- In between slab waterproofing.
- Encapsulation of asbestos, lead paint, or other dry hazardous materials (Consult SPI).
- Earthen containment used with geotextile membranes.

**DRY PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile Strength</td>
<td>± 3,150 psi (22 MPa)</td>
</tr>
<tr>
<td>Elongation</td>
<td>± 630%</td>
</tr>
<tr>
<td>Hardness (Shore A)</td>
<td>80 ± 5</td>
</tr>
<tr>
<td>Hardness (Shore D)</td>
<td>33 ± 5</td>
</tr>
<tr>
<td>100% Modulus</td>
<td>572 psi (4 MPa) ± 10</td>
</tr>
<tr>
<td>300% Modulus</td>
<td>1,071 psi (7 MPa) ± 10</td>
</tr>
<tr>
<td>Tear Resistance</td>
<td>314 PLi (55.00 KN/m) ± 50</td>
</tr>
<tr>
<td>Exposure Temperature</td>
<td>-60° - 300°F (-50° - 148°C)</td>
</tr>
</tbody>
</table>

**CURING SCHEDULE**

<table>
<thead>
<tr>
<th>Stage</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gel</td>
<td>± 15 sec</td>
</tr>
<tr>
<td>Tack Free</td>
<td>± 30 sec</td>
</tr>
<tr>
<td>Post Cure***</td>
<td>24 hour</td>
</tr>
<tr>
<td>Recoat</td>
<td>0 - 12 hours</td>
</tr>
</tbody>
</table>

* All cured film properties are approximate since processing parameters, ad-mixture types, and quantities change physical properties of the cured elastomer. Elevated temperatures will accelerate the curing process and shorten the re-coat window.

** Test performed in a dry, static environment.

*** Complete polymerization to achieve final strength can take up to several days or weeks, depending on a variety of conditions or product type. All samples for above tests were force cured 48 hours or aged for more than three weeks. It is recommended that the user perform their own independent testing.

The samples for tests on this technical data sheet were sprayed with Graco HXP3 at 45 mils (1.1 mm), at 2900 psi (20 mpa) dynamic pressure at the gun (20 mpa). Proportioning machine primary heater and hose heat 170°F (77°C). Graco MP Fusion gun with 29/29 mixing chamber and .040 ceramtip.
Apply ELASTAFLEX™ HP UB only to clean, dry, sound, surfaces free of loose particles or other foreign matter. ELASTAFLEX™ HP UB can be sprayed over a broad range of ambient and substrate temperatures. It is recommended that ELASTAFLEX™ HP UB be sprayed in multi-directional (north/south - east/west) passes to ensure uniform thickness.

**WET PROPERTIES**

<table>
<thead>
<tr>
<th>Evaluation</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLAME SPREAD <strong>ASTM E84 @ 40 mils</strong></td>
<td>Class I Passed 15</td>
</tr>
<tr>
<td>SMOKE DENSITY <strong>ASTM E84 @ 40 mils</strong></td>
<td>Class 1 Passed 30</td>
</tr>
<tr>
<td>ABRASION RESISTANCE <strong>ASTM D4060</strong></td>
<td>H-18 wheel 110 mg loss</td>
</tr>
<tr>
<td>WEATHERABILITY (black) 3000 hours (QUV)</td>
<td>no evidence of failure</td>
</tr>
<tr>
<td>MANDREL BEND <strong>ASTM D522-13</strong></td>
<td>1/4&quot; at -60°F Passed</td>
</tr>
</tbody>
</table>

**PACKAGING**

This product sold in standard 110 gallon drum and 550 gallon tote sets. Available in other container sizes, contact sales representative for further information. Non-standard containers may require a longer lead time.

**COLORS**

ELASTAFLEX™ HP UB is available in standard colors (*Manila, and Light Grey) Sand, Medium Grey, and Black. Custom colors available upon request. Aluminized ELASTAFLEX™ HP UB is also available under the name ELASTAFLEX ARC™.

Note: ELASTAFLEX™ HP UB in continuous full-light exposure, white or very light colors will change over a period of time. Aliphatic urethane and other suitable topcoats can be used where long-term aesthetics are of critical importance.

**GENERAL APPLICATION INSTRUCTIONS**

Apply ELASTAFLEX™ HP UB only to clean, dry, sound, surfaces free of loose particles or other foreign matter. ELASTAFLEX™ HP UB can be sprayed over a broad range of ambient and substrate temperatures. It is recommended that ELASTAFLEX™ HP UB be sprayed in multi-directional (north/south - east/west) passes to ensure uniform thickness.

Contact SPI technical service personnel for specific surface preparation for your application.

**CONCRETE:** Prepare concrete in accordance with SSPC/NACE Standards and SPI Concrete Prep Guide.

**PREVIOUSLY APPLIED COATINGS:** SPI recommends UB™ (ULTRA BOND™) products over existing coatings that are past the recoat window and/or application over other coatings. Contact SPI for additional information.

NOTE: It is recommended that existing surfaces be power washed with 2500—3500 psi water pressure to enhance adhesion of ELASTAFLEX™ HP UB. If there is a possibility of surface contamination, scrub with a solution of 1/4 tsp Dawn detergent and 1 tbsp of vinegar, per 1 gallon of warm water. Follow with a thorough water rinse. If there is oxidation on the surface of the existing substrate; it must be removed prior to application of ELASTAFLEX™ HP UB. Removal of oxidation can be done via mechanical methods to insure the ELASTAFLEX™ HP UB has a sound substrate to adhere to. The use of SPI Prep Wipe™ solution will tack up the existing polyurea coating and help promote bonding of the ELASTAFLEX™ HP UB.

On all above listed substrates and others, please contact SPI Sales or Technical Support for more information specific to your application, including industry standards such as SSPC and NACE. Adhesion tests are always recommended prior to application.

**PROCESSING EQUIPMENT & SETTINGS**

**MACHINES:**

**GRACO (Gusmer, Glasscraft)**

- A-25*
- A-XP1
- E-10 HP
- E-20*
- E-30*
- E-XP1
- E-XP2
- H-20/35 Pro
- H-25*
- H3500
- H-40*
- H-50*
- HV-20/35
- H-XP2
- H-XP3
- Reactor2 E-XP2
- Reactor2 H-XP2
- Reactor2 H-XP3
- Reactor2 E-30*
- Reactor2 H-30*
- Reactor2 H-40*
- Reactor2 H-50*
- Reactor2 H-55*

**PMC**

- GH-25*
- GH-30*
- PA-25*
- PAX-25
- PH-2*
- PH-25*
- PH-40*
- PH-45
- PH-50
- PMCA-20

**SPRAY FOAM EQUIP & MFG**

- 5/12K*
- 6/6K*
- 6/12K

*2,000 psi machines
• Standard 1:1 ratio, heated, plural-component equipment developing a minimum of 1700 psi (11.72 MPa) dynamic pressure at the gun with heating capabilities to 175°F (79°C) will adequately spray ElastaFLEX™ HP UB.

• Machines capable of producing a higher dynamic psi may be required depending on the service environment the ELASTAFLEX™ HP UB will be exposed to. Consult with SPI technical service personnel for additional information.

• Proportioning machine primary heater temperature 70°F (21°C).

• Hose temperature 160-170°F (71-77°C). A hose thermometer inserted under the insulation near the gun should read a minimum of 145-155°F (63-68°C).

• Physical properties will be enhanced when sprayed at higher pressure (3000 psi or more); utilizing an impingement mix gun such as MP Fusion or GX7-DI gun.

• Do not use mixing chambers with output greater than 1.5 gallons per minute. Consult SPI technical service personnel for additional information.

If you own a machine that is not listed above please contact your SPI representative for information and instructions.

**LIMITATIONS**

ELASTAFLEX™ HP UB is for professional use only.

ELASTAFLEX™ HP UB must be stored at temperatures between 60—90°F (15—32°C).

Liquid temperature in containers/drums during application 70—100°F (21—38°C).

Apply ELASTAFLEX™ HP UB when surface and air temperatures are above 40°F (5°C) and the surface temperature is at least 5°F (3°C) above dew point and rising.

Minimum material/container temperature for spray application is 70°F (21°C).

Avoid moisture contamination in containers. Containers should not be released if contamination is suspected. CO₂ created pressure can develop. Do not attempt to use contaminated material.

Undried air exposed to liquid components will reduce physical properties of the cured coating.

Note: The material supplied is a two component system (Component “A”/Component “B”) which is used to formulate this product. The quality and characteristics of the finished polymer is determined by the mixture and application of the two components.

For the most up to date technical data sheet and/or safety data sheet visit our website at www.specialty-products.com.
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