SHERFLEX™ ELASTOMERIC POLYURETHANE is a high solids, spray applied, aromatic polyurethane coating and lining. It can be applied at thicknesses of 30-250 mils (750-6250 microns) in multiple passes during a single application.

- Certified to ANSI/NSF Standard 61 for potable water tanks, 3,000 gallons and larger, or pipe sizes 61” ID or larger
- Fast cure - short down time
- High build and flexible
- Crack bridging capabilities
- Seamless and waterproof
- Impact, tear, and abrasion resistant
- Chemical resistant
- Low permeability

Finish: Semi-gloss
Colors: Beige
Volume Solids: 100%, mixed
Mix Ratio: 3:1
VOC (calculated): <50 g/L ; 0.42 lb/gal, mixed

### Recommended Spreading Rate per coat:

<table>
<thead>
<tr>
<th>Weight (lbs)</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wet mls (microns)</td>
<td>30.0 (750)</td>
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<td>Coverage sq ft/gal (m²/L)</td>
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<td>53 (6.4)</td>
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<tr>
<td>Theoretical coverage sq ft/gal (m²/L) @ 1 mil / 25 microns dft</td>
<td>1604</td>
<td>39.4</td>
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### Drying Schedule @ 30.0 mils wet (750 microns):

- To touch: 3 hours
- Tack free: 5 hours
- To recoat maximum: 30 days
- To cure: 5 days

Drying time is temperature, humidity, and film thickness dependent. If maximum recoat time is exceeded, abrade surface before recoating.

### System Tested:

1 ct. Corobond LT Epoxy Primer @ 4.0 mils (100 microns) dft
1 ct. SherFlex Elastomeric @ 60.0 mils (1500 microns) dft

### Performance Characteristics

- **Abrasion Resistance**: ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load - 106 mg loss
- **Adhesion**: ASTM D4541 - Concrete: 350 psi (concrete failure); Steel: 1800 psi
- **Dielectric Strength**: ASTM D149-92a, method A - 430 volts/mil
- **Direct Impact**: ASTM D2794 on steel pipe - 160 in./lb, no failures
- **Durometer Hardness**: ASTM D2240 - 43 Shore D
- **Elongation**: ASTM D638 - 45% at 25°C (77°F)
- **Flexibility**: ASTM D1737 - No effect bending 0.5 mm plate coated with 20 mils (500 microns) over mandrel of 8 mm diameter
- **Permeability**: ASTM E96 - 0.189 grains/hr ft²Hg U.S. Perms
- **Tensile Strength**: ASTM D638 - 1988 psi at 25°C (77°F)
- **Thermal Conductivity**: ASTM C177 - 0.000550 cal/sec.cm²°C per cm at 25°C (0.133 BTU/HR.ft².°F per ft at 77°F)

Meets ASTM D16, Type V

For Potable Water Service:
- **Pot Life**: None
- **Sweat-in-Time**: None
- **Shelf Life**: 12 months, unopened
- **Flash Point**: 240°F (115°C), Closed Cup Part A
- **Reductor**: Not recommended

Potable Water Tank Restrictions:
- Tanks ≥ 3,000 gallons
- Pipes ≥ 61"
- Maximum DFT: 100 mils

Designed for use in immersion service as a tough, flexible, impact resistant, waterproof coating and lining system.

Not recommended for use with cathodic protection systems.

For use in areas including:
- Wet wells
- Grit chambers
- Aeration basins
- Sewer manholes
- Cooling tower linings
- Water & wastewater linings
- Secondary containment
- Potable water (Beige)


Suitable for use in the Mining & Minerals Industry.

### Substrate*

- Concrete

### Surface Preparation*

- SSPC-SP13/NACE6, or ICRI No. 310.2, CSP 3-5

### Test Name | Test Method | Results
--- | --- | ---
**Abrasion Resistance** | ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load | 106 mg loss
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Meets ASTM D16, Type V

continued on back
The systems listed above are representative of the product’s use, other systems may be appropriate.

DISCLAIMER

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Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Iron & Steel
Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is Near White Metal Blast Cleaning per SSPC-SP10/NACE 2. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (3 mils/75 microns or greater). Remove all weld spatter and round all sharp edges by grinding. Coat all steel before flash rusting occurs.

Concrete and Masonry
For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI No. 310.2, CSP 3-5. Surfaces should be thoroughly clean and dry. Concrete and mortar must be cured at least 28 days @ 75°F (24°C). Remove all loose mortar and foreign material. Surface must be free of laitance, concrete dust, dirt, form release agents, moisture curing membranes, loose cement and hardeners. Fill bug holes, air pockets and other voids with Steel-Seam FT910. Primer required.

Follow the standard methods listed below when applicable:
ASTM D4258 Standard Practice for Cleaning Concrete.
ASTM D4259 Standard Practice for Abrading Concrete.
ASTM D4260 Standard Practice for Etching Concrete.
ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete.
SSPC-SP 13/Nace 6 Surface Preparation of Concrete.
ICRI No. 310.2R Concrete Surface Preparation.

Concrete, Immersion Service:
For surface preparation, refer to SSPC-SP13/NACE 6, Section 4.3.1 or 1.3.2 or ICRI No. 310.2, CSP 3-5.

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compliant with existing VOC regulations and compatible with the existing environmental and application conditions.

Reduction .......................Not recommended
Clean Up .......................Xylene R2K4, MEK R6K10
Purge Solvent .................MEK R6K10, Acetone

Recommended Spray Equipment*
Pump ...............................Graco Hydra-Cat or Xtreme mix system with remote manifold (restriction required on Hardener side)
Pressure .........................3000 psi working pressure
Hose ...............................3/8" Resin, 1/4" Hardener, 1/4" whip hose from Mixing Manifold to Gun, 10 ft maximum 5" Static Mixing Tube with disposable plastic insert.
Tip ...............................025" - .035"

Conventional Spray ..........Not recommended
Brush .............................Repairs and touch-up only

*Application training is required and spray equipment must be approved by Sherwin-Williams Technical Service.

If specific application equipment is not listed above, equivalent equipment may be substituted.
APPLICATION BULLETIN

SHERFLEX™
ELASTOMERIC POLYURETHANE

PART A  B65H910  BEIGE
PART B  B65V910  HARDENER

APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

Mixing Instructions: Agitate components thoroughly with low speed power agitation before use to disperse pigment and assure homogeneity. Do not reduce (thin). Do not mix resins A and B together. CAUTION: Do not agitate in air and moisture. Both components should be heated to approximately 140°F-160°F (60°C-71°C) to achieve spray pattern consistency.

Plural component application required, 3:1 mix ratio.

Apply paint at the recommended film thickness and spreading rate as indicated below:

Recommended Spreading Rate per coat:

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| Theoretical coverage sq ft/gal (m²/L) @ 1 mil / 25 microns dft | 1604 (39.4) |

Drying Schedule @ 30.0 mils wet (750 microns):

- @ 40°F/4.5°C
  - To touch: 3 hours
  - Tack free: 5 hours
  - To recoat maximum: 30 days
  - To cure: 5 days

- @ 77°F/25°C
  - @ 120°F/49°C
  - @ 50% RH

Drying time is temperature, humidity, and film thickness dependent.

If maximum recoat time is exceeded, abrade surface before recoating.

For concrete, refer to moisture content testing per SSPC SP-13/ NACE No. 6. Do not proceed with MVE >3lbs.

Consult your Sherwin-Williams representative for specific application and performance recommendations.

- Potable Water Applications:
  - Maximum DFT allowed is 100 mils (2500 microns)
  - SherFlex S may be applied up to 80 mils (2000 microns) dft. If applied over SherFlex, the dft of the SherFlex S should not exceed 30 mils (750 microns).

Refer to Product Information sheet for additional performance characteristics and properties.

CLEAN UP INSTRUCTIONS

Clean spills and spatters immediately with Xylene R2K4, or MEK R6K10. Clean tools and equipment immediately after use (including both A and B sides of plural component spray system) with Xylene R2K4, or MEK R6K10.

A B65H910 B65V910

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SAFETY PRECAUTIONS

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

WARRANTY

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