SHER-GLASS FF
GLASS FLAKE REINFORCED EPOXY

PRODUCT INFORMATION

PART A: B62-525
PART B: B62V525
STANDARD HARDENER
PART B: B62V526
LOW TEMP HARDENER

4.37

PRODUCT DESCRIPTION

SHER-GLASS FF is a glass flake reinforced amine epoxy coating formulated for immersion service or where steel or concrete protection is desired, in a wide range of harsh industrial environments.

• The use of pre-wetted glass flake allows for consistent mixing and application
• Reinforced film enhances performance and edge protection
• Excellent immersion service performance
• Corrosion, impact, abrasion resistant
• Direct to metal application for tanks and structural steel
• For up to 20.0 mils (500 microns) dry in a single coat

PRODUCT CHARACTERISTICS

Finish: Semi-Gloss
Color: Red Oxide, Black, Haze Gray, White OAP

Volume Solids: 76% ± 2% mixed, (calculated)
Weight Solids: 87% ± 2% mixed, (calculated)
Mix Ratio: 4:1 (2 components)

VOC (EPA Method 24): Unreduced: <250 g/L; 2.08 lb/gal
(mixed) 10% Reduced: <276 g/L; 2.30 lb/gal

Recommended Spreading Rate per coat:
- Coverage sq ft/gal (m²/L)

Wet mils (microns) 10.0 (250) 26.0 (625)
Dry mils (microns) 8.0 (200) 20.0 (500)

Theoretical coverage sq ft/gal (m²/L) @ 1 mil / 25 microns dft
= 1216 (29.8)

Recommended uses:
- Petro-chemical and power plants
- Immersion in fresh or salt water
- Water and waste water facilities
- Marine - ships, barges, and offshore structures
- High humidity and moisture areas
- Areas requiring good chemical resistance to splash, spillage, and fumes
- Acceptable for use in areas of high H2S
- Acceptable for use with cathodic protection systems

PERFORMANCE CHARACTERISTICS

For use over prepared steel or concrete in the following environments:

Substrate*: Steel
Surface Preparation*: SSPC-SP10/NACE 2
System Tested*:
- 1 cl. Sher-Glass FF @ 15.0 mils (375 microns) w/ Standard Hardener

<table>
<thead>
<tr>
<th>Test Name</th>
<th>Test Method</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adhesion</td>
<td>ASTM D4541, Patti Tester</td>
<td>1100 psi</td>
</tr>
<tr>
<td>Corrosion</td>
<td>ASTM D5894, 12 cycles, 4032 hours</td>
<td>Rating 10 per ASTM D714 for Blistering; Rating 10 per ASTM D610 for Rusting</td>
</tr>
<tr>
<td>Weathering Resistance</td>
<td>ASTM D2485, Method A, Water Quench Test</td>
<td>400°F (204°C) (discolors)</td>
</tr>
<tr>
<td>Direct Impact Resistance</td>
<td>ASTM D2794</td>
<td>32 in. lbs.</td>
</tr>
<tr>
<td>Dry Heat Resistance</td>
<td>ASTM D522</td>
<td>6% elongation - Passes 3/4 inch mandrel</td>
</tr>
<tr>
<td>Flexibility</td>
<td>ASTM D522</td>
<td>6% elongation - Passes 3/4 inch mandrel</td>
</tr>
<tr>
<td>Moisture Condensation Resistance</td>
<td>ASTM D4585, 100°F (38°C), 4200 hours</td>
<td>Rating 10 per ASTM D714 for Blistering; Rating 10 per ASTM D610 for Rusting</td>
</tr>
<tr>
<td>Pencil Hardness</td>
<td>ASTM D3363</td>
<td>3H</td>
</tr>
<tr>
<td>Salt Fog Resistance</td>
<td>ASTM B117, 4200 hours</td>
<td>Rating 10 per ASTM D714 for Blistering; Rating 10 per ASTM D610 for Rusting</td>
</tr>
</tbody>
</table>

Epoxy coatings may darken or yellow following application and curing.

www.sherwin-williams.com/protective
continued on back
Protective & Marine Coatings

SHER-GLASS FF
GLASS FLAKE REINFORCED EPOXY

Part a B62-525 Series
Part B B62V525 Standard
Part B B62V526 Low Temp Hardener

PRODUCT INFORMATION

4.37 www.sherwin-williams.com/protective

Surface Preparation
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.

Refer to product Application Bulletin for detailed surface preparation information.

Minimum recommended surface preparation:

Iron & Steel:
- Atmospheric: SSPC-SP12/NACE 5, WJ-4 (with existing profile) or SSPC-SP3 or SSPC-SP2
- Immersion: SSPC-SP10/NACE 2, 2-3 mil (50-75 micron) profile or SSPC-SP12/NACE 5, WJ-2/SC-2 (with existing profile)

Concrete & Masonry:
- Atmospheric: SSPC-SP 13/NACE 6, or ICRI No. 310.2R, CSP 1-3
- Immersion: SSPC-SP 13/NACE 6, 6-4.3.1 or 4.3.2, or ICRI No. 310.2R, CSP 1-3

Surface Preparation Standards

<table>
<thead>
<tr>
<th>Condition of Surface</th>
<th>ISO 8501-1</th>
<th>BS7079:1A</th>
<th>SIS055900</th>
<th>SSPC</th>
<th>NACE</th>
</tr>
</thead>
<tbody>
<tr>
<td>White Metal</td>
<td>Sa 3</td>
<td>Sa 2.5</td>
<td>SP 5</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Near White Metal</td>
<td>Sa 3</td>
<td>Sa 2.5</td>
<td>SP 10</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Commercial Blast</td>
<td>Sa 1</td>
<td>Sa 2</td>
<td>SP 4</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Brush-Off Blast</td>
<td>Sa 1</td>
<td>Sa 2</td>
<td>SP 3</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Hand Tool Cleaning</td>
<td>Rusted</td>
<td>Di 2</td>
<td>SP 2</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Rusted, Pitted &amp; Rusted</td>
<td>Di 3</td>
<td>CS2</td>
<td>SP 3</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Power Tool Cleaning</td>
<td>Rusted</td>
<td>Di 3</td>
<td>SP 3</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

Steel, Urethane topcoat:
- 1ct. Sher-Glass FF 8.0-20.0 (200-500)
- 1ct. Acrolon 218 HS Polyurethane 3.0-6.0 (75-150)

Atmospheric Service:
- 1-2 cts. Sher-Glass FF 8.0-20.0 (200-500)
- 1 ct. Dura-Plate 235 4.0-8.0 (100-200)
- 1 ct. Sher-Glass FF 8.0-20.0 (200-500)
- 1 ct. Macropoxy 240 3.0-5.0 (75-125)
- 1 ct. Sher-Glass FF 8.0-20.0 (200-500)

Steel, Urethane topcoat:
- 1ct. Sher-Glass FF 8.0-20.0 (200-500)
- 1ct. Acrolon 218 HS Polyurethane 3.0-6.0 (75-150)

Discontinue use above dew point.

Temperature:
- Standard Hardener: Air & Material 55°F (13°C) minimum
- Surface 120°F (49°C) maximum
- Low Temp Hardener: Air & Material 40°F (4.5°C) minimum
- Surface 120°F (49°C) maximum

Relative humidity: 85% maximum

Refer to product Application Bulletin for detailed application information.

Do not use low temperature hardener above 80°F (27°C)

ORDERING INFORMATION

Packaging:
- Part A: 5 gallons (18.9L) mixed
- Part B: 4 gallons (15.1L) in a slack filled five gallon container
- Part C: 1 gallon (3.78L)

Weight: 11.54 ± 0.3 lb/gal; 1.4 Kg/L (mixed)

SAFETY PRECAUTIONS

Refer to the MSDS sheet before use. Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

WARRANTY

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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

Disclaimer

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Tinting

Do not tint.

Recommended Systems

<table>
<thead>
<tr>
<th>Dry Film Thickness / ct. Mils (Microns)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immersion Service:</td>
</tr>
<tr>
<td>Steel:</td>
</tr>
<tr>
<td>2 cts. Sher-Glass FF 8.0-20.0 (200-500)</td>
</tr>
<tr>
<td>or</td>
</tr>
<tr>
<td>1 ct. Dura-Plate 235 4.0-8.0 (100-200)</td>
</tr>
<tr>
<td>1 ct. Sher-Glass FF 8.0-20.0 (200-500)</td>
</tr>
<tr>
<td>or</td>
</tr>
<tr>
<td>1 ct. Macropoxy 240 3.0-5.0 (75-125)</td>
</tr>
<tr>
<td>1 ct. Sher-Glass FF 8.0-20.0 (200-500)</td>
</tr>
<tr>
<td>Concrete (Smooth):</td>
</tr>
<tr>
<td>1 ct. Corobond 100 4.0-6.0 (100-150)</td>
</tr>
<tr>
<td>2 cts. Sher-Glass FF 8.0-20.0 (200-500)</td>
</tr>
<tr>
<td>Concrete (Rough):</td>
</tr>
<tr>
<td>1 ct. Steel -Seam FT910, as required to fill voids and provide a continuous substrate, up to 1&quot;.*</td>
</tr>
<tr>
<td>2 cts. Sher-Glass FF 8.0-20.0 (200-500)</td>
</tr>
<tr>
<td>Atmospheric Service:</td>
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* Kem Cati-Coat Epoxy Filler/Sealer may also be acceptable.
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 (atmospheric service)
Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is Ultra High Pressure Water Jetting for Steel per SSPC-SP12/NACE 5, WJ-4 (with existing profile) or SSPC-SP3 Power Tool Clean or SSPC-SP2 Hand Tool Clean. For better performance, use Commercial Blast Cleaning per SSPC-SP6/NACE 3. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2 mils / 50 microns). Coat any bare steel the same day as it is cleaned or before flash rusting occurs.

Iron & Steel, Immersion Service:
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 or SSPC-SP12/NACE 2. For SSPC-SP10, blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2 mils / 50 microns). For SSPC-SP12/NACE 2, all surfaces to be coated shall be cleaned in accordance with WJ-2/SC-2 standards. Pre-existing profile should be approximately 2 mils (50 microns). Light rust bloom is allowed. Remove all weld spatter and round all sharp edges. Prime any bare steel the same day as it is cleaned.

Note: If blast cleaning with steel media is used, an appropriate amount of steel grit blast media may be incorporated into the work mix to render a dense, angular 2.0-3.0 mil (50-75 micron) surface profile. This method may result in improved adhesion and performance.
**APPLICATION PROCEDURES**

Surface preparation must be completed as indicated.

Mix contents of each component thoroughly with low speed power agitation. Make certain no pigment remains on the bottom of the can. Then combine 4 parts by volume of Part A with one part by volume of Part B. Thoroughly agitate the mixture with power agitation at slow speeds. Allow the material to sweat-in as indicated. Prior to use, pour through a 30-60-mesh screen and re-stir before using.

If reducer solvent is used, add only after components have been thoroughly mixed, after sweat-in.

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

<table>
<thead>
<tr>
<th>Spreading Rate</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wet mils (microns)</td>
<td>10.0 (250)</td>
<td>26.0 (625)</td>
</tr>
<tr>
<td>Dry mils (microns)</td>
<td>8.0 (200)</td>
<td>20.0 (500)</td>
</tr>
<tr>
<td>~Coverage sq ft/gal (m²/L)</td>
<td>61 (1.5)</td>
<td>152 (3.7)</td>
</tr>
<tr>
<td>Theoretical coverage sq ft/gal (m²/L) @ 1 mil / 25 microns dft</td>
<td>1216 (29.8)</td>
<td></td>
</tr>
</tbody>
</table>

NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

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**Performance Tips**

Stripe coat all crevices, welds, and sharp angles to prevent early failure in these areas.

When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. If necessary, cross spray at a right angle.

Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, roughness or porosity of the surface, skill and technique of the applicator, method of application, various surface irregularities, material lost during mixing, spillage, overthinning, climatic conditions, and excessive film build.

Excessive reduction of material can affect film build, appearance and adhesion.

Excessive film build, poor ventilation, and cool temperatures may cause solvent entrapment and premature coating failure.

For Immersion Service: (if required) Holiday test in accordance with ASTM D5162 for steel, or ASTM D4787 for concrete.

Do not mix previously catalyzed material with new.

Do not apply the material beyond recommended pot life.

Do not use the Low Temp Hardener above 80°F (27°C)

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

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**Clean Up instructions**

Clean spills and spatters immediately with R2K4, or R7K100. Clean tools immediately after use with R2K4, or R7K100. Follow manufacturer’s safety recommendations when using any solvent.

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