



**ArmorSeal**  
**Heavy Duty**  
**Floor**  
**Coatings**

**8.25**

# ARMORSEAL® 650 SL/RC

## SELF-LEVELING/RECOATABLE EPOXY

|        |          |                   |
|--------|----------|-------------------|
| PART A | B58-650  | SERIES            |
| PART B | B60VQ655 | STANDARD HARDENER |
| PART B | B60VQ656 | FAST SET HARDENER |

### PRODUCT INFORMATION

Revised 3/07

| PRODUCT DESCRIPTION  | RECOMMENDED USES  |               |               |               |           |             |              |           |            |  |  |  |          |          |         |         |          |          |          |          |               |          |          |          |                |          |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |  |               |           |         |            |  |          |         |          |          |               |               |                |               |          |        |                  |            |                       |      |  |
|--|---|---------------|---------------|---------------|-----------|-------------|--------------|-----------|------------|--|--|--|----------|----------|---------|---------|----------|----------|----------|----------|---------------|----------|----------|----------|----------------|----------|----------|----------|----------|--------|--------|--------|------------------|------------|------------|------------|-----------------------|------|------|------|--|---------------|-----------|---------|------------|--|----------|---------|----------|----------|---------------|---------------|----------------|---------------|----------|--------|------------------|------------|-----------------------|------|--|
| <p><b>ARMORSEAL 650 SL/RC</b> self-leveling, recoatable epoxy is a two-component, heavy duty floor system that provides a high gloss, seamless, hygienic surface that is extremely hard wearing and durable. The coating can also be applied to provide a nonslip texture. This product may be topcoated if required.</p> <ul style="list-style-type: none"> <li>• Chemical resistant</li> <li>• Impact resistant</li> <li>• Abrasion resistant</li> </ul>   | <ul style="list-style-type: none"> <li>• Especially suited for clean rooms, aircraft hangars, laboratories, workshops and light assembly areas.</li> <li>• The product can be applied at thicknesses from 10.0 to 30.0 mils dft.</li> <li>• Suitable for application in nuclear power facilities.</li> <li>• For use as part of the ArmorQuartz system, a decorative broadcast color quartz system.</li> <li>• Suitable for use in USDA inspected facilities</li> </ul> |               |               |               |           |             |              |           |            |  |  |  |          |          |         |         |          |          |          |          |               |          |          |          |                |          |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |  |               |           |         |            |  |          |         |          |          |               |               |                |               |          |        |                  |            |                       |      |  |
| PRODUCT CHARACTERISTICS  | PERFORMANCE CHARACTERISTICS   |               |               |               |           |             |              |           |            |  |  |  |          |          |         |         |          |          |          |          |               |          |          |          |                |          |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |  |               |           |         |            |  |          |         |          |          |               |               |                |               |          |        |                  |            |                       |      |  |
| <p><b>Finish:</b> Full Gloss</p> <p><b>Color:</b> Clear, Haze Gray, Deck Gray, White, Sandstone, Tile Red, and wide range of colors possible</p> <p><b>Volume Solids:</b> 100%, mixed</p> <p><b>VOC (EPA Method):</b> &lt;100 g/L; 0.83 lb/gal, mixed</p> <p><b>Mix Ratio:</b> 2 component, premeasured</p> <p><b>Recommended Spreading Rate per coat:</b><br/> Wet mils: 10.0 - 30.0*<br/> Dry mils: 10.0 - 30.0<br/> Coverage: 50 - 160 sq ft/gal approximate<br/> *(Apply Clear at only 10-15 mils maximum per coat)</p> <p><b>Drying Schedule 10.0 mils wet @ 50% RH:</b><br/> <b>B60VQ655 Standard Hardener:</b></p> <table style="width: 100%; border: none;"> <tr> <td></td> <td style="text-align: center;"><b>@ 55°F</b></td> <td style="text-align: center;"><b>@ 72°F</b></td> <td style="text-align: center;"><b>@ 95°F</b></td> </tr> <tr> <td>To touch:</td> <td>16-24 hours</td> <td>6 - 12 hours</td> <td>4-8 hours</td> </tr> <tr> <td>To recoat:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>  minimum:</td> <td>36 hours</td> <td>8 hours</td> <td>6 hours</td> </tr> <tr> <td>  maximum:</td> <td>72 hours</td> <td>72 hours</td> <td>72 hours</td> </tr> <tr> <td>Foot traffic:</td> <td>48 hours</td> <td>24 hours</td> <td>18 hours</td> </tr> <tr> <td>Heavy traffic:</td> <td>96 hours</td> <td>72 hours</td> <td>60 hours</td> </tr> <tr> <td>To cure:</td> <td>7 days</td> <td>7 days</td> <td>7 days</td> </tr> <tr> <td><b>Pot Life:</b></td> <td>60 minutes</td> <td>40 minutes</td> <td>20 minutes</td> </tr> <tr> <td><b>Sweat-in-Time:</b></td> <td>None</td> <td>None</td> <td>None</td> </tr> </table> <p><b>B60VQ656 Fast Set Hardener*:</b></p> <table style="width: 100%; border: none;"> <tr> <td></td> <td style="text-align: center;"><b>@ 72°F</b></td> </tr> <tr> <td>To touch:</td> <td>4 hours</td> </tr> <tr> <td>To recoat:</td> <td></td> </tr> <tr> <td>  minimum:</td> <td>8 hours</td> </tr> <tr> <td>  maximum:</td> <td>72 hours</td> </tr> <tr> <td>Foot traffic:</td> <td>10 - 12 hours</td> </tr> <tr> <td>Heavy traffic:</td> <td>24 - 48 hours</td> </tr> <tr> <td>To cure:</td> <td>7 days</td> </tr> <tr> <td><b>Pot Life:</b></td> <td>25 minutes</td> </tr> <tr> <td><b>Sweat-in Time:</b></td> <td>None</td> </tr> </table> <p><small>Drying time is temperature, humidity, and film thickness dependent.<br/> Abrade surface if recoating after 72 hours.<br/> *Do Not use Fast Set Hardener with tint bases</small></p> <p><b>Shelf Life:</b> 18 months, unopened<br/> Store indoors at 40°F to 100°F</p> <p><b>Flash Point:</b> 200°F, PMCC, mixed</p> <p><b>Reducer:</b> Not recommended</p> <p><b>Clean Up:</b> Reducer #54, R7K54</p> |   | <b>@ 55°F</b> | <b>@ 72°F</b> | <b>@ 95°F</b> | To touch: | 16-24 hours | 6 - 12 hours | 4-8 hours | To recoat: |  |  |  | minimum: | 36 hours | 8 hours | 6 hours | maximum: | 72 hours | 72 hours | 72 hours | Foot traffic: | 48 hours | 24 hours | 18 hours | Heavy traffic: | 96 hours | 72 hours | 60 hours | To cure: | 7 days | 7 days | 7 days | <b>Pot Life:</b> | 60 minutes | 40 minutes | 20 minutes | <b>Sweat-in-Time:</b> | None | None | None |  | <b>@ 72°F</b> | To touch: | 4 hours | To recoat: |  | minimum: | 8 hours | maximum: | 72 hours | Foot traffic: | 10 - 12 hours | Heavy traffic: | 24 - 48 hours | To cure: | 7 days | <b>Pot Life:</b> | 25 minutes | <b>Sweat-in Time:</b> | None | <ul style="list-style-type: none"> <li>• Excellent adhesion properties</li> <li>• Chemical resistant</li> <li>• Self - leveling properties</li> <li>• Provides a seamless-high build durable coating</li> <li>• Solvent resistant</li> <li>• Dry heat resistance: 200°F</li> </ul> <p><b>Abrasion Resistance</b><br/> Method: ASTM D4060, CS17 wheel, 1000 cycles, 1 Kg load<br/> Result: 100 mg loss</p> <p><b>Decontamination - of Coatings used in Nuclear Power Plants</b><br/> Method: ANSI 5.12 / ASTM D4256-89<br/> Result: Passes</p> <p><b>Flexural Strength</b><br/> Method: ASTM D790<br/> Result: ~12,400 psi</p> <p><b>Hardness - Shore D</b><br/> Method: ASTM D2240<br/> Result: 75</p> <p><b>Impact Resistance</b><br/> Method: Mil-D-3134J<br/> Result: Direct: &gt; 160 in lb<br/> Indirect: &gt; 80 in lb</p> <p><b>Irradiation-Effects on Coatings used in Nuclear Power Plants</b><br/> Method: ANSI 5.12 / ASTM D4082-89<br/> Result: Passes</p> <p><b>Tensile Strength</b><br/> Method: ASTM D638<br/> Result: ~6,000 psi</p> |
|  | <b>@ 55°F</b>   | <b>@ 72°F</b> | <b>@ 95°F</b> |               |           |             |              |           |            |  |  |  |          |          |         |         |          |          |          |          |               |          |          |          |                |          |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |  |               |           |         |            |  |          |         |          |          |               |               |                |               |          |        |                  |            |                       |      |  |
| To touch:  | 16-24 hours   | 6 - 12 hours  | 4-8 hours     |               |           |             |              |           |            |  |  |  |          |          |         |         |          |          |          |          |               |          |          |          |                |          |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |  |               |           |         |            |  |          |         |          |          |               |               |                |               |          |        |                  |            |                       |      |  |
| To recoat:   |   |               |               |               |           |             |              |           |            |  |  |  |          |          |         |         |          |          |          |          |               |          |          |          |                |          |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |  |               |           |         |            |  |          |         |          |          |               |               |                |               |          |        |                  |            |                       |      |  |
| minimum:   | 36 hours  | 8 hours       | 6 hours       |               |           |             |              |           |            |  |  |  |          |          |         |         |          |          |          |          |               |          |          |          |                |          |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |  |               |           |         |            |  |          |         |          |          |               |               |                |               |          |        |                  |            |                       |      |  |
| maximum:   | 72 hours  | 72 hours      | 72 hours      |               |           |             |              |           |            |  |  |  |          |          |         |         |          |          |          |          |               |          |          |          |                |          |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |  |               |           |         |            |  |          |         |          |          |               |               |                |               |          |        |                  |            |                       |      |  |
| Foot traffic:  | 48 hours  | 24 hours      | 18 hours      |               |           |             |              |           |            |  |  |  |          |          |         |         |          |          |          |          |               |          |          |          |                |          |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |  |               |           |         |            |  |          |         |          |          |               |               |                |               |          |        |                  |            |                       |      |  |
| Heavy traffic:   | 96 hours  | 72 hours      | 60 hours      |               |           |             |              |           |            |  |  |  |          |          |         |         |          |          |          |          |               |          |          |          |                |          |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |  |               |           |         |            |  |          |         |          |          |               |               |                |               |          |        |                  |            |                       |      |  |
| To cure:   | 7 days  | 7 days        | 7 days        |               |           |             |              |           |            |  |  |  |          |          |         |         |          |          |          |          |               |          |          |          |                |          |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |  |               |           |         |            |  |          |         |          |          |               |               |                |               |          |        |                  |            |                       |      |  |
| <b>Pot Life:</b>   | 60 minutes  | 40 minutes    | 20 minutes    |               |           |             |              |           |            |  |  |  |          |          |         |         |          |          |          |          |               |          |          |          |                |          |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |  |               |           |         |            |  |          |         |          |          |               |               |                |               |          |        |                  |            |                       |      |  |
| <b>Sweat-in-Time:</b>  | None  | None          | None          |               |           |             |              |           |            |  |  |  |          |          |         |         |          |          |          |          |               |          |          |          |                |          |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |  |               |           |         |            |  |          |         |          |          |               |               |                |               |          |        |                  |            |                       |      |  |
|  | <b>@ 72°F</b>   |               |               |               |           |             |              |           |            |  |  |  |          |          |         |         |          |          |          |          |               |          |          |          |                |          |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |  |               |           |         |            |  |          |         |          |          |               |               |                |               |          |        |                  |            |                       |      |  |
| To touch:  | 4 hours   |               |               |               |           |             |              |           |            |  |  |  |          |          |         |         |          |          |          |          |               |          |          |          |                |          |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |  |               |           |         |            |  |          |         |          |          |               |               |                |               |          |        |                  |            |                       |      |  |
| To recoat:   |   |               |               |               |           |             |              |           |            |  |  |  |          |          |         |         |          |          |          |          |               |          |          |          |                |          |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |  |               |           |         |            |  |          |         |          |          |               |               |                |               |          |        |                  |            |                       |      |  |
| minimum:   | 8 hours   |               |               |               |           |             |              |           |            |  |  |  |          |          |         |         |          |          |          |          |               |          |          |          |                |          |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |  |               |           |         |            |  |          |         |          |          |               |               |                |               |          |        |                  |            |                       |      |  |
| maximum:   | 72 hours  |               |               |               |           |             |              |           |            |  |  |  |          |          |         |         |          |          |          |          |               |          |          |          |                |          |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |  |               |           |         |            |  |          |         |          |          |               |               |                |               |          |        |                  |            |                       |      |  |
| Foot traffic:  | 10 - 12 hours   |               |               |               |           |             |              |           |            |  |  |  |          |          |         |         |          |          |          |          |               |          |          |          |                |          |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |  |               |           |         |            |  |          |         |          |          |               |               |                |               |          |        |                  |            |                       |      |  |
| Heavy traffic:   | 24 - 48 hours   |               |               |               |           |             |              |           |            |  |  |  |          |          |         |         |          |          |          |          |               |          |          |          |                |          |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |  |               |           |         |            |  |          |         |          |          |               |               |                |               |          |        |                  |            |                       |      |  |
| To cure:   | 7 days  |               |               |               |           |             |              |           |            |  |  |  |          |          |         |         |          |          |          |          |               |          |          |          |                |          |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |  |               |           |         |            |  |          |         |          |          |               |               |                |               |          |        |                  |            |                       |      |  |
| <b>Pot Life:</b>   | 25 minutes  |               |               |               |           |             |              |           |            |  |  |  |          |          |         |         |          |          |          |          |               |          |          |          |                |          |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |  |               |           |         |            |  |          |         |          |          |               |               |                |               |          |        |                  |            |                       |      |  |
| <b>Sweat-in Time:</b>  | None  |               |               |               |           |             |              |           |            |  |  |  |          |          |         |         |          |          |          |          |               |          |          |          |                |          |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |  |               |           |         |            |  |          |         |          |          |               |               |                |               |          |        |                  |            |                       |      |  |



**ArmorSeal**  
**Heavy Duty**  
**Floor**  
**Coatings**

**8.25**

# ARMORSEAL® 650 SL/RC

## SELF-LEVELING/RECOATABLE EPOXY

|        |          |                   |
|--------|----------|-------------------|
| PART A | B58-650  | SERIES            |
| PART B | B60VQ655 | STANDARD HARDENER |
| PART B | B60VQ656 | FAST SET HARDENER |

### PRODUCT INFORMATION

| RECOMMENDED SYSTEMS  | SURFACE PREPARATION   |
|--|---|
| <p><b>Concrete:</b><br/>           1 ct. ArmorSeal 33 Primer @ 8.0 mils dft<br/>           1 ct. ArmorSeal 650 SL/RC @ 10.0 - 30.0 mils dft</p> <p><b>Concrete:</b><br/>           1 ct. ArmorSeal Water Based Epoxy Primer @ 2.0 - 3.0 mils dft<br/>           1 ct. ArmorSeal 650 SL/RC @ 10.0 - 30.0 mils dft</p> <p><b>Concrete:</b><br/>           1 ct. ArmorSeal Floor-Plex 7100 Primer @ 1.5 - 2.0 mils dft<br/>           1 ct. ArmorSeal 650 SL/RC @ 10.0 - 30.0 mils dft</p> <p><b>Steel:</b><br/>           1 ct. Recoatable Epoxy Primer @ 4.0 - 5.0 mils dft<br/>           1 ct. ArmorSeal 650 SL/RC @ 10.0 - 30.0 mils dft</p> <p><b>ArmorQuartz System*:</b><br/>           1 ct. ArmorSeal 33 Epoxy Primer/Sealer Clear @ 10.0 mils wft, broadcast to excess with color quartz<br/>           1 ct. ArmorSeal 33 Epoxy Primer/Sealer Clear @ 24.0 mils wft, broadcast to excess with color quartz<br/>           1 ct. ArmorSeal 650 SL/RC Clear at 15.0 mils wft<br/>           1 ct. ArmorSeal 650 SL/RC Clear at 8.0 mils wft</p> <p>*Refer to application procedures</p> <p>The systems listed above are representative of the products use, other systems may be appropriate.</p> | <p>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.</p> <p>Refer to product application Bulletin for detailed surface preparation information.</p> <p>Minimum recommended surface preparation:<br/>           * Iron &amp; Steel: SSPC-SP6/NACE 3<br/>           * Concrete &amp; Masonry: SSPC-SP13/NACE 6 or ICRI 03732, CSP 1-3<br/>           * Primer required</p>  |
|  | TINTING   |
|  | <p>Tinting acceptable for the tint bases only. Use 844 colorants only at 50% tint strength. Five minutes minimum mixing on a mechanical shaker is required for complete mixing of color.</p>  |
|  | APPLICATION CONDITIONS  |
|  | <p>Temperature: 55°F minimum, 95°F maximum (air, surface, and material)<br/>           At least 5°F above dew point<br/>           Relative humidity: 85% maximum</p> <p>Refer to product Application Bulletin for detailed application information.</p>  |
|  | ORDERING INFORMATION  |
|  | <p>Packaging:<br/>           1 gallon kit contains Part A and Part B<br/>           5 gallon mix Part A - 3.33 gal. in a 5 gal. container<br/>           Part B - 1.67 gal. in a 2 gal container</p> <p>Weight per gallon: 10.4 ± 0.2 lb, mixed</p>   |
|  | SAFETY PRECAUTIONS  |
|  | <p>Refer to the MSDS sheet before use.</p> <p>Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.</p>  |
| DISCLAIMER   | WARRANTY  |
| <p>The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.</p>   | <p>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.</p> |



**ArmorSeal**  
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**Coatings**

**8.25A**

# ARMORSEAL® 650 SL/RC

## SELF-LEVELING/RECOATABLE EPOXY

|        |          |                   |
|--------|----------|-------------------|
| PART A | B58-650  | SERIES            |
| PART B | B60VQ655 | STANDARD HARDENER |
| PART B | B60VQ656 | FAST SET HARDENER |

### APPLICATION BULLETIN

Revised 3/07

| SURFACE PREPARATION   | APPLICATION CONDITIONS   |
|---|--|
| <p>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.</p> <p><b>Poured Concrete</b><br/> <b>New</b><br/>           For surface preparation, refer to SSPC-SP13/NACE 6 or ICRI 03732, CSP 1-3. Surface must be clean, dry, sound, and offer sufficient profile to achieve adequate adhesion. Minimum substrate cure is 28 days at 75°F. Remove all form release agents, curing compounds, salts, efflorescence, laitance, and other foreign matter by sandblasting, shotblasting, mechanical scarification, or suitable chemical means. Refer to ASTM D4260. Rinse thoroughly to achieve a final pH between 8.0 and 10.0. Allow to dry thoroughly prior to coating.</p> <p><b>Old</b><br/>           Surface preparation is done in much the same manner as new concrete; however, if the concrete is contaminated with oils, grease, chemicals, etc., they must be removed by cleaning with a strong detergent. Refer to ASTM D4258. Form release agents, hardeners, etc. must be removed by sandblasting, shotblasting, mechanical scarification, or suitable chemical means. If surface deterioration presents an unacceptably rough surface, ArmorSeal Crack Filler is recommended to patch and resurface damaged concrete. Fill all cracks, voids and bugholes with ArmorSeal Crack Filler.</p> <p><b>Always follow the standard methods listed below:</b><br/>           ASTM D4258 Standard Practice for Cleaning Concrete.<br/>           ASTM D4259 Standard Practice for Abrading Concrete.<br/>           ASTM D4260 Standard Practice for Etching Concrete.<br/>           ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete.<br/>           SSPC-SP 13/Nace 6 Surface Preparation of Concrete<br/>           ICRI 03732, Concrete Surface Preparation</p> <p><b>Iron &amp; Steel</b><br/>           Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is Commercial Blast Cleaning per SSPC-SP6/NACE 3. For better performance, use Near White Metal Blast Cleaning per SSPC-SP10/NACE 2. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2 mils). Prime any bare steel the same day as it is cleaned.</p> <p><b>Previously Painted Surfaces:</b><br/>           If in sound condition, clean the surface of all foreign material. Smooth, hard or glossy coatings and surfaces should be dulled by abrading the surface. Apply a test area, allowing paint to dry one week before testing adhesion. If adhesion is poor, additional abrasion of the surface and/or removal of the previous coating may be necessary. Retest surface for adhesion. If paint is peeling or badly weathered, clean surface to sound substrate and treat as a new surface as above.</p> | <p>Temperature: 55°F minimum, 95°F maximum (air, surface, and material)<br/>           At least 5°F above dew point</p> <p>Relative humidity: 85% maximum</p> <hr/> <p style="text-align: center;"><b>APPLICATION EQUIPMENT</b></p> <p><b>Reducer</b> ..... Not recommended</p> <p><b>Clean Up</b> ..... Reducer #54, R7K54</p> <p><b>Roller</b><br/>           Cover ..... 3/8" woven with phenolic core</p> <p><b>Trowel</b> ..... Acceptable</p> <p><b>Squeegee</b> ..... Acceptable</p> <p><b>Spike Roller/<br/>           Loop Roller</b> ..... Required</p> <p>If specific application equipment is not listed above, equivalent equipment may be substituted.</p> |



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**8.25A**  
**ARMORSEAL® 650 SL/RC**  
**SELF-LEVELING/RECOATABLE EPOXY**

|               |                 |                          |
|---------------|-----------------|--------------------------|
| <b>PART A</b> | <b>B58-650</b>  | <b>SERIES</b>            |
| <b>PART B</b> | <b>B60VQ655</b> | <b>STANDARD HARDENER</b> |
| <b>PART B</b> | <b>B60VQ656</b> | <b>FAST SET HARDENER</b> |

**APPLICATION BULLETIN**

| APPLICATION PROCEDURES   | ARMORQUARTZ SYSTEM APPLICATION PROCEDURES   |               |               |               |           |             |              |           |            |                   |         |         |  |                   |          |          |               |          |          |          |                |  |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |                                     |  |               |  |           |  |         |  |            |          |         |  |  |          |          |  |               |  |               |  |                |  |               |  |          |  |        |  |                  |  |            |  |                       |      |  |  |   |
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| <p>Surface preparation must be completed as indicated.<br/>To mix 1 gallon units: Use electric or air mixer (approximately 250 rpm) with metal mixing blade (Jiffy Model HS or equal). Premix both components for 1-2 minutes, then pour hardener contents into slack-filled resin can. Mix for 2 to 3 minutes, moving blade around can while mixing. Avoid whipping in air while mixing. To mix 5 gallon units use same procedure as mixing 1 gallon units except a larger blade (Jiffy Model ES or equal) is required.<br/>Immediately pour entire mixture onto prepared substrate and spread with a flat rubber squeegee to the desired thickness and "cross-roll" using a 3/8" nap soft woven roller or equivalent. Check film thickness frequently. After 20-30 minutes setup time, material should be rolled with a spiked roller to remove any entrapped air. Do not spike roll after 40 minutes.<br/>If a slip-resistant texture is desired, broadcast a clean, dry 30-50 mesh silica sand into the ArmorSeal 33 Primer coat immediately after application. Broadcast sand until the primer is saturated and only dry sand is showing. After the primer has set (6 hours minimum), sweep excess sand off the surface. Then topcoat with 15-20 mils of ArmorSeal 650 SL/RC. Lower topcoat thickness will produce more pronounced slip-resistant profiles, heavier topcoats will produce smoother profiles. Spike rolling is not necessary when ArmorSeal 650 SL/RC is applied as a slip-resistant coating.</p> <p><b>Recommended Spreading Rate per coat:</b><br/>Wet mils: 10.0 - 30.0 (Apply Clear at only 10-15 mils max.)<br/>Dry mils: 10.0 - 30.0<br/>Coverage: 50 - 160 sq ft/gal approximate</p> <p><b>Drying Schedule 10.0 mils wet @ 50% RH:<br/>B60VQ655 Standard Hardener:</b></p> <table border="0"> <tr> <td></td> <td><b>@ 55°F</b></td> <td><b>@ 72°F</b></td> <td><b>@ 95°F</b></td> </tr> <tr> <td>To touch:</td> <td>16-24 hours</td> <td>6 - 12 hours</td> <td>4-8 hours</td> </tr> <tr> <td>To recoat:</td> <td>minimum: 36 hours</td> <td>8 hours</td> <td>6 hours</td> </tr> <tr> <td></td> <td>maximum: 72 hours</td> <td>72 hours</td> <td>72 hours</td> </tr> <tr> <td>Foot traffic:</td> <td>48 hours</td> <td>24 hours</td> <td>18 hours</td> </tr> <tr> <td>Heavy traffic:</td> <td></td> <td>96 hours</td> <td>72 hours</td> </tr> <tr> <td>To cure:</td> <td>7 days</td> <td>7 days</td> <td>7 days</td> </tr> <tr> <td><b>Pot Life:</b></td> <td>60 minutes</td> <td>40 minutes</td> <td>20 minutes</td> </tr> <tr> <td><b>Sweat-in-Time:</b></td> <td>None</td> <td>None</td> <td>None</td> </tr> <tr> <td><b>B60VQ656 Fast Set Hardener*:</b></td> <td></td> <td><b>@ 72°F</b></td> <td></td> </tr> <tr> <td>To touch:</td> <td></td> <td>4 hours</td> <td></td> </tr> <tr> <td>To recoat:</td> <td>minimum:</td> <td>8 hours</td> <td></td> </tr> <tr> <td></td> <td>maximum:</td> <td>72 hours</td> <td></td> </tr> <tr> <td>Foot traffic:</td> <td></td> <td>10 - 12 hours</td> <td></td> </tr> <tr> <td>Heavy traffic:</td> <td></td> <td>24 - 48 hours</td> <td></td> </tr> <tr> <td>To cure:</td> <td></td> <td>7 days</td> <td></td> </tr> <tr> <td><b>Pot Life:</b></td> <td></td> <td>25 minutes</td> <td></td> </tr> <tr> <td><b>Sweat-in Time:</b></td> <td>None</td> <td></td> <td></td> </tr> <p>Drying time is temperature, humidity, and film thickness dependent. Abrade surface if recoating after 72 hours. Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.<br/>*Do not use Fast Set Hardener with tint bases</p> </table> |   | <b>@ 55°F</b> | <b>@ 72°F</b> | <b>@ 95°F</b> | To touch: | 16-24 hours | 6 - 12 hours | 4-8 hours | To recoat: | minimum: 36 hours | 8 hours | 6 hours |  | maximum: 72 hours | 72 hours | 72 hours | Foot traffic: | 48 hours | 24 hours | 18 hours | Heavy traffic: |  | 96 hours | 72 hours | To cure: | 7 days | 7 days | 7 days | <b>Pot Life:</b> | 60 minutes | 40 minutes | 20 minutes | <b>Sweat-in-Time:</b> | None | None | None | <b>B60VQ656 Fast Set Hardener*:</b> |  | <b>@ 72°F</b> |  | To touch: |  | 4 hours |  | To recoat: | minimum: | 8 hours |  |  | maximum: | 72 hours |  | Foot traffic: |  | 10 - 12 hours |  | Heavy traffic: |  | 24 - 48 hours |  | To cure: |  | 7 days |  | <b>Pot Life:</b> |  | 25 minutes |  | <b>Sweat-in Time:</b> | None |  |  | <p><b>First Broadcast Step</b></p> <ol style="list-style-type: none"> <li>1. Pre-mix ArmorSeal 33 Epoxy Primer/Sealer Clear components as previously referenced.</li> <li>2. Pour hardener contents into a slack-filled resin can and mix with low speed drill for 3 minutes and until uniform.</li> <li>3. Immediately pour the mixed material onto the substrate and pull out using a squeegee and cross roll with a 3/8" nap roller at a spread rate of 140-145 square feet per gallon (approximately 10.0 mils wft).</li> <li>4. Allow material to self-level for 10-15 minutes. Begin evenly seeding the color quartz into the wet resin (much the same as grass seed is spread). Color quartz may be spread by hand or mechanical blower but should be broadcast in such a way that the granules fall lightly into the resin without causing the resin to move. Continue broadcasting to excess until the floor appears completely dry.</li> <li>5. Allow to cure (cure times vary depending on environmental conditions) and sweep off excess granules with a clean, stiff-bristled broom. Clean granules can be saved for future use. All imperfections, such as high spots, should be smoothed before the application of the second broadcast.</li> </ol> <p><b>Second Broadcast Step</b></p> <ol style="list-style-type: none"> <li>1. Premix ArmorSeal 33 Epoxy Primer/Sealer Clear components as previously referenced.</li> <li>2. Pour hardener contents into a slack-filled resin can and mix with low speed drill for 3 minutes and until uniform.</li> <li>3. Immediately pour the mixed material onto the substrate and pull out using a squeegee and cross roll with a 3/8" nap roller at a spread rate of 65-70 square feet per gallon (approximately 24.0 mils wft).</li> <li>4. Allow material to self-level for 10-15 minutes. Begin evenly seeding the color quartz into the wet resin (much the same as grass seed is spread). Color quartz may be spread by hand or mechanical blower but should be broadcast in such a way that the granules fall lightly into the resin without causing the resin to move. Continue broadcasting to excess until the floor appears completely dry.</li> <li>5. Allow to cure (cure times vary depending on environmental conditions) and sweep off excess granules with a clean, stiff-bristled broom. Clean granules can be saved for future use.</li> </ol> <p>NOTE: Color quartz distribution is critical to the success of the application. The finished appearance depends on the manner in which the granules have been applied. In grass seed-like fashion, allow the granules to fall after being thrown upward and out. <b>Do not throw downward at a sharp angle using force.</b></p> <p><b>Ground Coat / Seal Coat</b></p> <ol style="list-style-type: none"> <li>1. Premix both components of ArmorSeal 650 SL/RC Clear separately, using a low speed drill and Jiffy mixer. Mix for 1-2 minutes and until uniform, exercising caution not to introduce air into the material.</li> <li>2. Combine and mix with low speed drill and Jiffy mixer for 2-3 minutes and until uniform. To insure proper system cure and performance, strictly follow mix ratio recommendations.</li> <li>3. Apply ArmorSeal 650 SL/RC Clear using a flat trowel or squeegee and backroll with a 3/8" woven roller. Apply evenly at a spread rate of 100 square feet per gallon (approximately 15.0 mils wft), with no puddles, making sure of uniform coverage. Spike roll after 20-30 minutes as needed. Two coats may be required to duplicate desired texture. <b>Take care not to puddle materials and insure even coverage.</b></li> <li>4. Allow to cure. (Cure times vary depending on environmental conditions.)</li> </ol> |
|  | <b>@ 55°F</b>   | <b>@ 72°F</b> | <b>@ 95°F</b> |               |           |             |              |           |            |                   |         |         |  |                   |          |          |               |          |          |          |                |  |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |                                     |  |               |  |           |  |         |  |            |          |         |  |  |          |          |  |               |  |               |  |                |  |               |  |          |  |        |  |                  |  |            |  |                       |      |  |  |   |
| To touch:  | 16-24 hours   | 6 - 12 hours  | 4-8 hours     |               |           |             |              |           |            |                   |         |         |  |                   |          |          |               |          |          |          |                |  |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |                                     |  |               |  |           |  |         |  |            |          |         |  |  |          |          |  |               |  |               |  |                |  |               |  |          |  |        |  |                  |  |            |  |                       |      |  |  |   |
| To recoat:   | minimum: 36 hours   | 8 hours       | 6 hours       |               |           |             |              |           |            |                   |         |         |  |                   |          |          |               |          |          |          |                |  |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |                                     |  |               |  |           |  |         |  |            |          |         |  |  |          |          |  |               |  |               |  |                |  |               |  |          |  |        |  |                  |  |            |  |                       |      |  |  |   |
|  | maximum: 72 hours   | 72 hours      | 72 hours      |               |           |             |              |           |            |                   |         |         |  |                   |          |          |               |          |          |          |                |  |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |                                     |  |               |  |           |  |         |  |            |          |         |  |  |          |          |  |               |  |               |  |                |  |               |  |          |  |        |  |                  |  |            |  |                       |      |  |  |   |
| Foot traffic:  | 48 hours  | 24 hours      | 18 hours      |               |           |             |              |           |            |                   |         |         |  |                   |          |          |               |          |          |          |                |  |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |                                     |  |               |  |           |  |         |  |            |          |         |  |  |          |          |  |               |  |               |  |                |  |               |  |          |  |        |  |                  |  |            |  |                       |      |  |  |   |
| Heavy traffic:   |   | 96 hours      | 72 hours      |               |           |             |              |           |            |                   |         |         |  |                   |          |          |               |          |          |          |                |  |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |                                     |  |               |  |           |  |         |  |            |          |         |  |  |          |          |  |               |  |               |  |                |  |               |  |          |  |        |  |                  |  |            |  |                       |      |  |  |   |
| To cure:   | 7 days  | 7 days        | 7 days        |               |           |             |              |           |            |                   |         |         |  |                   |          |          |               |          |          |          |                |  |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |                                     |  |               |  |           |  |         |  |            |          |         |  |  |          |          |  |               |  |               |  |                |  |               |  |          |  |        |  |                  |  |            |  |                       |      |  |  |   |
| <b>Pot Life:</b>   | 60 minutes  | 40 minutes    | 20 minutes    |               |           |             |              |           |            |                   |         |         |  |                   |          |          |               |          |          |          |                |  |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |                                     |  |               |  |           |  |         |  |            |          |         |  |  |          |          |  |               |  |               |  |                |  |               |  |          |  |        |  |                  |  |            |  |                       |      |  |  |   |
| <b>Sweat-in-Time:</b>  | None  | None          | None          |               |           |             |              |           |            |                   |         |         |  |                   |          |          |               |          |          |          |                |  |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |                                     |  |               |  |           |  |         |  |            |          |         |  |  |          |          |  |               |  |               |  |                |  |               |  |          |  |        |  |                  |  |            |  |                       |      |  |  |   |
| <b>B60VQ656 Fast Set Hardener*:</b>  |   | <b>@ 72°F</b> |               |               |           |             |              |           |            |                   |         |         |  |                   |          |          |               |          |          |          |                |  |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |                                     |  |               |  |           |  |         |  |            |          |         |  |  |          |          |  |               |  |               |  |                |  |               |  |          |  |        |  |                  |  |            |  |                       |      |  |  |   |
| To touch:  |   | 4 hours       |               |               |           |             |              |           |            |                   |         |         |  |                   |          |          |               |          |          |          |                |  |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |                                     |  |               |  |           |  |         |  |            |          |         |  |  |          |          |  |               |  |               |  |                |  |               |  |          |  |        |  |                  |  |            |  |                       |      |  |  |   |
| To recoat:   | minimum:  | 8 hours       |               |               |           |             |              |           |            |                   |         |         |  |                   |          |          |               |          |          |          |                |  |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |                                     |  |               |  |           |  |         |  |            |          |         |  |  |          |          |  |               |  |               |  |                |  |               |  |          |  |        |  |                  |  |            |  |                       |      |  |  |   |
|  | maximum:  | 72 hours      |               |               |           |             |              |           |            |                   |         |         |  |                   |          |          |               |          |          |          |                |  |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |                                     |  |               |  |           |  |         |  |            |          |         |  |  |          |          |  |               |  |               |  |                |  |               |  |          |  |        |  |                  |  |            |  |                       |      |  |  |   |
| Foot traffic:  |   | 10 - 12 hours |               |               |           |             |              |           |            |                   |         |         |  |                   |          |          |               |          |          |          |                |  |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |                                     |  |               |  |           |  |         |  |            |          |         |  |  |          |          |  |               |  |               |  |                |  |               |  |          |  |        |  |                  |  |            |  |                       |      |  |  |   |
| Heavy traffic:   |   | 24 - 48 hours |               |               |           |             |              |           |            |                   |         |         |  |                   |          |          |               |          |          |          |                |  |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |                                     |  |               |  |           |  |         |  |            |          |         |  |  |          |          |  |               |  |               |  |                |  |               |  |          |  |        |  |                  |  |            |  |                       |      |  |  |   |
| To cure:   |   | 7 days        |               |               |           |             |              |           |            |                   |         |         |  |                   |          |          |               |          |          |          |                |  |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |                                     |  |               |  |           |  |         |  |            |          |         |  |  |          |          |  |               |  |               |  |                |  |               |  |          |  |        |  |                  |  |            |  |                       |      |  |  |   |
| <b>Pot Life:</b>   |   | 25 minutes    |               |               |           |             |              |           |            |                   |         |         |  |                   |          |          |               |          |          |          |                |  |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |                                     |  |               |  |           |  |         |  |            |          |         |  |  |          |          |  |               |  |               |  |                |  |               |  |          |  |        |  |                  |  |            |  |                       |      |  |  |   |
| <b>Sweat-in Time:</b>  | None  |               |               |               |           |             |              |           |            |                   |         |         |  |                   |          |          |               |          |          |          |                |  |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |                                     |  |               |  |           |  |         |  |            |          |         |  |  |          |          |  |               |  |               |  |                |  |               |  |          |  |        |  |                  |  |            |  |                       |      |  |  |   |
| <p><b>PERFORMANCE TIPS</b></p> <p>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.</p> <p>Do not apply the material beyond recommended pot life. Do not mix previously catalyzed material with new.</p> <p>When recoating ArmorSeal 650 SL/RC, it must be done no less than 8 hours and no more than 72 hours after applying the first coat. If this "window" has passed, the surface of the cured ArmorSeal 650 SL/RC must be abraded to ensure the adhesion of subsequent coats.</p>  | <p><b>SAFETY PRECAUTIONS</b></p> <p>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.</p>  |               |               |               |           |             |              |           |            |                   |         |         |  |                   |          |          |               |          |          |          |                |  |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |                                     |  |               |  |           |  |         |  |            |          |         |  |  |          |          |  |               |  |               |  |                |  |               |  |          |  |        |  |                  |  |            |  |                       |      |  |  |   |
| <p><b>CLEAN UP INSTRUCTIONS</b></p> <p>Clean spills and spatters immediately with Reducer #54, R7K54. Clean tools immediately after use with Reducer #54, R7K54. Follow manufacturer's safety recommendations when using any solvent.</p>  | <p><b>WARRANTY</b></p> <p>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. <b>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.</b></p> |               |               |               |           |             |              |           |            |                   |         |         |  |                   |          |          |               |          |          |          |                |  |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |                                     |  |               |  |           |  |         |  |            |          |         |  |  |          |          |  |               |  |               |  |                |  |               |  |          |  |        |  |                  |  |            |  |                       |      |  |  |   |
| <p><b>DISCLAIMER</b></p> <p>The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.</p>  | <p><b>WARRANTY</b></p> <p>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. <b>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.</b></p> |               |               |               |           |             |              |           |            |                   |         |         |  |                   |          |          |               |          |          |          |                |  |          |          |          |        |        |        |                  |            |            |            |                       |      |      |      |                                     |  |               |  |           |  |         |  |            |          |         |  |  |          |          |  |               |  |               |  |                |  |               |  |          |  |        |  |                  |  |            |  |                       |      |  |  |   |