# Sanitile® 755 FR

PRODUCT DATA SHEET

## SELECTION & SPECIFICATION DATA

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| **Generic Type** | Fiber reinforced, ultra durable epoxy |
| **Description** | Sanitile 755 FR is a reinforced epoxy designed for maximum protection of walls in high impact zones like schools and hospitals, while its exceptional thermal shock resistance protects against aggressive wash downs and chemical cleanings in Food and Beverage facilities. It has outstanding wetting properties that permit its application direct to drywall, CMU, concrete or steel surfaces. |
| **Features** | • Durable epoxy wall cladding<br>• High fiber content / integrated fiber system offers better distribution and strength<br>• Ultra low VOC, low odor system<br>• Passed fungal testing per ASTM G21, ASTM D5590<br>• Labor saving, one coat reinforced system - no need for fiberglass matting<br>• High tensile strength and impact resistance<br>• Excellent chemical resistance<br>• Excellent abrasion and moisture resistance<br>• Self-priming and primer/finish capabilities<br>• VOC compliant to current AIM regulations<br>• Suitable for use in USDA inspected facilities |
| **Color** | White (0800) is the standard color |
| **Finish** | Semi-Gloss |
| **Primer** | Self-priming. May be applied over recommended primers and over tightly adherent, existing coatings. |
| **Dry Film Thickness** | 20 - 50 mils (508 - 1270 microns) per coat<br><br>**Do not exceed 50.0 mils (1270 microns) per coat.** |
| **Solid(s) Content** | 99.5 +/- 0.5% (by volume) |
| **Theoretical Coverage Rates** | Theoretical coverage rate:<br>1,596 $ft^2$/gal. @ 1.0 mil (39.1 $m^2$/L @ 25 microns)<br>80 $ft^2$/gal. @ 20 mils (2.0 $m^2$/L @ 500 microns)<br>40 $ft^2$/gal. @ 40 mils (1.0 $m^2$/L @ 1,000 microns) |
| **VOC Values** | **As Supplied** : 0.13 lb/gal (16 g/L) |
| **Dry Temp. Resistance** | Continuous: 200°F (93°C)<br>Non-Continuous: 250°F (121°C)<br><br>Discoloration and loss of gloss is observed above 200°F (93°C). |
| **Topcoats** | May be topcoated with acrylics, epoxies, or polyurethanes depending on exposure and need, including (but not limited to): Sanitile 155, Sanitile 255, Sanitile 555 VOC, Sanitile 855, and Carbothane 134 WB. |

## SUBSTRATES & SURFACE PREPARATION

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| **General** | Surfaces must be clean and dry. Employ adequate methods to remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating. |

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| **Steel** | SSPC SP6 with a 2.0-3.0 mil (50-75 micron) surface profile for maximum protection. SSPC-SP2 or SP3 for previously painted or weathered surface. |
| **Galvanized Steel** | Pre-clean in accordance with SSPC-SP1 to achieve an oxide free substrate. SSPC-SP16 with a 1.5-3.0 mil (38-75 micron) surface profile for maximum protection. SSPC-SP2 or SP3 for mild environments and for touchup/repair. |
| **Concrete or CMU** | Concrete shall be designed, placed, cured, and prepared per SSPC-SP 13/NACE No. 6. Abrade to remove all laitance, loose concrete, etc. and to create concrete surface profile in accordance with the appropriate ICRI standard. For CMU, prepare in accordance with ASTM D4261. |
| **Drywall & Plaster** | Joint compound and plaster should be fully cured prior to coating application. |
| **Previously Painted Surfaces** | Sand or abrade to roughen and degloss the surface. Existing paint must attain a minimum 3A rating in accordance with ASTM D3359 X-Cut tape adhesion test. |

## MIXING & THINNING

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| **Mixing** | Power mix separately, then combine and power mix. DO NOT MIX PARTIAL KITS. |
| **Thinning** | Thinning normally not required. To reduce viscosity for improved sprayability, increasing material temperature is preferred, but product may be thinned up to 5% (6 oz./gal.) with Thinner 236 E. Thinning will affect the film build properties and extend the cure time of the coating. |
| **Ratio** | 1:1 Ratio (A to B) |
| **Pot Life** | 1.5 hours at 75 °F (24 °C). |

## APPLICATION EQUIPMENT GUIDELINES

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

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| **Spray Application (General)** | This is a high solids coating and may require adjustments in spray techniques. Wet film thickness is easily and quickly achieved. |
| **Conventional Spray** | Pressure pot equipped with dual regulators, 3/8-1/2" I.D. material hose, 0.110" I.D. fluid tip and appropriate air cap. |
| **Airless Spray** | Pump Ratio: 45:1 (min)*<br>GPM Output: 3.0 (min)<br>Material Hose: 3/8-1/2" I.D.<br>Tip Size: 0.025-0.035"<br>Output PSI: 3000-3500<br>Filter Size: No filter<br>*PTFE packings are recommended and available from the pump manufacturer. |

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**Plural Spray**
Use a fixed ratio (1:1 by volume) heated plural component spray rig such as Graco XP-50/70 series, WIWA 230/330 Duomix series, or equal.
**Material temperatures:** For proper spraying, Part A should be between 95-105°F(35-41°C) and Part B 110-120°F(43-49°C).
From the mix manifold, attach a 9" x 12-element static mixer, which will connect next to a 3/8" x 10-15' material hose. Optionally, two additional 5" x 12-element static mixers can be used between this connection and the the next 3/8"x 10-15' material hose length, with the setup ending with a 5" x 12-element static mixer directly to the gun (Graco XTR 7, Graco Flex Plus, WIWA 500 F, Binks 75M, or equal, utilizing self-cleaning reverse "a" tips from 0.025" to 0.035").

**Brush**
Recommended for small touchups or spot repairs only. Use a natural bristle brush with short strokes. Avoid excessive re-brushing

**Roller**
Not recommended.

## APPLICATION CONDITIONS

| Condition | Material | Surface | Ambient | Humidity |
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| Minimum | 60°F (16°C) | 45°F (7°C) | 45°F (7°C) | 0% |
| Maximum | 90°F (32°C) | 110°F (43°C) | 110°F (43°C) | 85% |

This product simply requires the substrate temperature to be above the dew point. Condensation due to substrate temperatures below the dew point can cause flash rusting on prepared steel and interfere with proper adhesion to the substrate. Special application techniques may be required above or below normal application conditions. For best results on rough cementitious and highly porous CMU surfaces, spray apply at 40 wet mils (1016 microns).

## CURING SCHEDULE

| Surface Temp. | Set to Touch | Dry to Recoat | Maximum Recoat | Final Cure |
|---|---|---|---|---|
| 50°F (10°C) | 15 Hours | 48 Hours | 7 Days | 28 Days |
| 60°F (16°C) | 9 Hours | 32 Hours | 7 Days | 14 Days |
| 75°F (24°C) | 4 Hours | 18 Hours | 7 Days | 7 Days |

These times are based on a 20 mil (508 micron) dry film thickness. Higher film thickness, insufficient ventilation or cooler temperatures will require longer cure times and could result in solvent entrapment and premature failure. Excessive humidity or condensation on the surface during curing can interfere with the cure, can cause discoloration and may result in a surface haze. Any haze or blush must be removed by water washing before re-coating. During high humidity conditions, it is recommended that the application be done while temperatures are increasing. If the maximum re-coat time is exceeded, the surface must be abraded by sweep blasting or sanding before the application of additional coats.

## CLEANUP & SAFETY

**Cleanup**
Use Thinner 2 or Acetone. In case of spillage, absorb and dispose of in accordance with local applicable regulations.

**Safety**
Read and follow all caution statements on this product data sheet and on the SDS for this product. Employ normal workmanlike safety precautions. Use adequate ventilation. Keep container closed when not in use.

## CLEANUP & SAFETY

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| **Ventilation** | When used in enclosed areas, thorough air circulation must be used during and after application until the coating is cured. The ventilation system should be capable of preventing the solvent vapor concentration from reaching the lower explosion limit for the solvents used. User should test and monitor exposure levels to insure all personnel are below guidelines. If not sure or if not able to monitor levels, use MSHA/NIOSH approved respirator. |

## PACKAGING, HANDLING & STORAGE

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| **Packaging** | **8 Gallon Kit:**<br>Part A: 4 gallons in a 5 gallon pail<br>Part B: 4 gallons in a 5 gallon pail |
| **Shelf Life** | Part A: Min. 12 months at 75 °F (24 °C)<br>Part B: 12 months at 75 °F (24 °C)<br><br>*Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers. |
| **Storage Temperature & Humidity** | 40-110 °F (4-43 °C)<br>0-90% Relative Humidity |
| **Storage** | Store Indoors. |
| **Shipping Weight (Approximate)** | 1.6 Gallon Kit - 21 lbs (9.5 kg)<br>8 Gallon Kit - 103 lbs (46.7 kg) |
| **Flash Point (Setaflash)** | Part A: >205 °F (96 °C)<br>Part B: >205 °F (96 °C) |

## WARRANTY

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