



IFS 400SD Technical Data Sheet

SRSF 81094 Super RAL 9003 (Crystal White)

Description: *SRSF 81094, Super RAL 9003 (Crystal White)* is a thermosetting Super Polyester-TGIC powder coating and designed for excellent exterior durability. When properly applied this product will meet or exceed the AAMA 2604-17a specification. This coating is reflects and emits IR radiation from the sun back into the atmosphere and greatly increase the total amount of solar energy (TSR) that is immediately rejected by the coatings. It helps to prevent from fading due to UV light exposure and to reduce from expansion and contraction due to heating and cooling cycles.

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| Typical Powder Properties | Specific Gravity (ASTM D5965-96, C) | 1.58±0.05 |
| | Theoretical Coverage | 122 sq.ft/lb./mil |
| | Shelf life (at below 80°F in dry condition) | 12 months |
| Typical Physical Properties: | Film Thickness | 2.0-3.0 mil |
| | Gloss 60'angle (ASTM D-523-89) | 80-90 |
| | Hardness (ASTM D-3363-92A) | H-2H |
| | Flexibility (ASTM D-1737-89) | ¼ inch |
| | Adhesion (ASTM D-3359-95A) | 5B (100%) |
| | Impact Direct/Indirect (ASTM D-2794-93) | 80/80 in-lbs. |
| | Total Solar Reflectance (ASTM E903/G173, at 3.0 mil) | 75-80% |
| | SRI (ASTM E-1980) | 85-90* |
| | Thermal Emittance (ASTM C1371) | 0.80-0.85* |
| | Salt Spray (ASTM B117, 1000 hrs, Bonderite 1000 panel) | Rating 7 (creepage) |
| Salt Spray (ASTM B117, 3000 hrs, Alodine panel) | Rating 7 (creepage) | |

Application Data: *SRSF 81094, Super RAL 9003 (Crystal White)* is to be applied with a corona electrostatic powder spray gun at between 60kv – 100 kV.

Cure Schedule: *SRSF 81094, Super RAL 9003 (Crystal White)* can be cured in a direct or indirect gas convection oven, an electric oven, or an Infrared. A combination of any of these ovens is also suitable.

Standard Cure: 10 minutes @ 400°F Peak Metal Temperature

Storage: *SRSF 81094, Super RAL 9003 (Crystal White)* should be stored at temperatures below 80°F, in a dry area away from any heat source.

Notes: All tests were performed on B-1000 iron phosphated and Alodine panels with a nominal film thickness of 2.0-3.0 mils. Please refer to the SDS for safety information.

**Although IFS Powder Coatings have not been tested for SRI and Thermal Emittance, data from the similar products that tested by the suppliers suggests that this product will show SRI and emittance of 85-90 and 0.80-0.85 respectively.*

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