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Technical Data Sheet

General Description

PRODUCT CODE: S8SU107
PRODUCT NAME: RAL 5005 SIGNAL BLUE SD
CHEMISTRY: SUPER- DURABLE POLYESTER
SURFACE FINISH: SMOOTH

Application Recommendation

Surface preparation: All oil and grease, scale and rust, must be removed.
Pretreatment Requirements: A five stage pretreatment according to ASTM B449 is highly recommended, Anodizing according to AAMA 2603-02 and Chrome-free pretreatment according to AAMA 2604-05 are acceptable methods of optimum adhesion performance and excellent corrosion protection.

Cure Schedule 10 min. at 400 Deg. F, or 15 min. at 375F metal temperature.

Film thickness: 3-5 mils.

Features: Superior gloss and color retention, excellent weather resistance, excellent mechanicals properties, excellent edge coverage, good storage stability.

Typical Applications: All Architectural and construction application including Playground equipment, Agricultural equipment and Marine application.

Shelf life is expected to be at least one year from date of shipment when stored in dry conditions at less than 80 Deg. F.(27 Deg. C.)

Typical Performance Characteristics

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|-----------------------|------------------|---|
| Specific Gravity | Calculated | 1.58 |
| Coverage | Calculated | 122 squares foot/lb./mil |
| Particle Size | ASTM D3451 | 0-10% over 200 Mesh |
| | Alpine Jet Sieve | 40-45% over 400 Mesh |
| Gloss 60 Degree | ASTM D 523 | 80-90 units |
| Impact Resistance | ASTM D 2794 | 160 in. lbs. Direct/160 in.lbs. Reverse |
| Flexibility | ASTM D 522 | Pass 1/8" Mandrel |
| Pencil Hardness | ASTM D 3363 | >2H |
| Adhesion | ASTM D 3359 | 5B- Method B |
| Salt Spray Resistance | ASTM B 117 | 3000 hr. (ASTM D165 Creepage Min.7) (ASTM D714 Blister Min. 8) |
| Humidity Resistance | ASTM D 2247 | 3000 hr. (ASTM D714 Blister Min.8) |

Weathering: South Florida Exposure 45 degree angle facing South

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|-------------------|----------------------|------------------------------|
| Color Retention | 5 years (ASTM D2244) | < 5 DE "CIELAB" (ASTM D2244) |
| Chalk Retention | 5 years (ASTM D659) | Minimum 8 rating (ASTM D659) |
| Gloss Retention | 5 years (AAMA 2604) | > 30% retention (ASTM D523) |
| Erosion retention | 5 years (ASTM D662) | <10% Loss |

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