IMPORTANT: Warranty and Disclaimer – The performance characteristics of these products vary according to the product application, operating conditions, materials applied to or use. Since these factors can affect results, we strongly recommend that you make your own tests to determine your satisfaction whether the product is of acceptable quality, has not been affected by storage or transportation and is suitable for your particular purpose under your own operating conditions prior to using any product in full scale production. Seller warrants the products to be free from defects in materials and workmanship. SUCH WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. No representative of ours has authority to waive or change this provision, which applies to all sales of these products.

www.cardinalpaint.com
Southern California  Powder Coating Manufacturing
1329 Potrero Avenue tel 626.937.6767
South El Monte, CA 91733
13972LS #:

C909 - WH485
POLYESTER POWDER COATING
GLOSS SMOOTH SUPERDURABLE
WHITE (Color of T009-WH11)

POWDER PROPERTIES
SPECIFIC GRAVITY: 1.60 CALCULATED
COVERAGE: 60.09 SQ.FT./LB. @ 2 MILS (100% EFFICIENCY)
PARTICLE SIZE: 25 - 50 MICRONS AVERAGE
STORAGE: STORE BELOW 80 DEGREES F, IN COOL DRY ENVIRONMENT
SHELF LIFE: MINIMUM OF 1 YEAR
CURE SCHEDULE: (METAL TEMPERATURE) 10 MINUTES @ 350 DEGREES F.

CURED FILM PROPERTIES
ALL TESTS WERE PERFORMED AT A FILM THICKNESS OF:

<table>
<thead>
<tr>
<th>TEST</th>
<th>METHOD</th>
<th>RANGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLOSS @ 60 DEGREES:</td>
<td>D523</td>
<td>90% +/-10%</td>
</tr>
<tr>
<td>DIRECT IMPACT (INCH LBS.):</td>
<td>D2794</td>
<td>100 in.lbs.</td>
</tr>
<tr>
<td>INDIRECT IMPACT (INCH LBS.):</td>
<td>D2794</td>
<td>100 in.lbs.</td>
</tr>
<tr>
<td>PENCIL HARDNESS:</td>
<td>D3363</td>
<td>2H</td>
</tr>
<tr>
<td>CROSS HATCH ADHESION:</td>
<td>D3359B</td>
<td>4B</td>
</tr>
<tr>
<td>FLEXIBILITY (CONICAL MANDRELL):</td>
<td>D1737/D522</td>
<td>100%</td>
</tr>
</tbody>
</table>

CHEMICAL AND CORROSION EXPOSURE TESTS
SALT SPRAY RESISTANCE: 1000 hours (ASTM Method B117) with < 1/8 in. creep from scribe.
HUMIDITY RESISTANCE: 1000 hours (ASTM Method D2247) no loss of adhesion or blistering.
CHEMICAL RESISTANCE: Good to excellent resistance to most solvents, oils, acids, and alkalies.
OVERBAKE RESISTANCE: Slight yellowing is evident, especially in white and pastel colors.
Q.U.V. EXPOSURE: 500hrs QUV-B (ASTM Method D4587-05) > 75% gloss retention.

APPLICATION
This product was designed to be applied by electrostatic spray, on steel, galvanized steel, or aluminum. Most powders can be reclaimed, sieved and recycled, if proper housekeeping is maintained.

PRETREATMENT
The substrate pretreatment prior to powder coating is a critical factor in developing maximum corrosion resistance and maximizing the lifetime of the product.

| C.R.S. (Iron phosphate): | 2 to 5 stages depending upon soil level, and quality desired. |
| C.R.S. (Zinc phosphate): | 5 to 9 stages depending upon soil level, and quality desired. |
| Galvanized steel (Zinc phosphate): | 5 to 7 stages depending on soil level, and quality desired. Galvanized steel must be degassed at 5 degrees above cure temperature to minimise gassing. |
| Aluminum (Chromate): | 5 stage system is normally needed. |
| Aluminum (phosphate): | 5 stage system is normally needed. |

G13MS

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