1. PRODUCT NAME
ACRYSHIELD® HIGH REFLECTANCE A590
Elastomeric Roof Coating

2. MANUFACTURER
NATIONAL COATINGS CORP.
1201 Calle Suerte
Camarillo, CA 93012
Phone: 800-423-9557
Fax: 805-388-8140
www.nationalcoatings.com
info@nationalcoatings.com

3. PRODUCT DESCRIPTION
ACRYSHIELD A590 is an ultra high-reflectance acrylic coating for use in AcryShield or AcryPly® Roofing Systems. The high reflectance of A590 is engineered to lower air conditioning energy costs. A590 reduces roof degradation and prolongs the life of the roof it is applied to, significantly lowering the life-cycle costs of the roof.

BENEFITS:
• Ultra High-Reflectance
• Seamless Waterproofing
• Fully-Adhered Installation
• Durable & Renewable
• Guaranteed to Prolong Roof Life
• Cooling Energy Savings
• Reduced Life-Cycle Costs
• ZERO VOC

APPROVALS:
• This product, in white, meets the ENERGY STAR® guidelines for reflectivity.

4. TECHNICAL DATA
See Table 1 on reverse side.

5. INSTALLATION
• Apply by spray, brush, or roller.
• All surfaces must be clean, dry, and free of dirt, grease, oil, degraded or chalked material, or other contaminants that would interfere with proper adhesion.
• Apply at temperatures above 50ºF.
• Apply only when weather conditions will permit drying before rain, dew or freezing temperatures. (Cool temperatures and high humidity retard cure.)
• For application details see specific Installation Guide Specifications.

6. STORAGE
Store materials between 40ºF and 100ºF to prevent damage to products. Do not store at high temperatures or direct sunlight. Protect all materials from freezing during transit, handling, storage, and installation. Minimum one year shelf life if stored at 40ºF-90ºF.

7. AVAILABILITY AND COST
ACRYSHIELD A590 may be purchased directly from National Coatings. For information call 800-423-9557.

8. WARRANTY
Various warranties are available for specific AcryPly Roofing Systems, AcryShield Roof Management Systems, and AcryShield SPF Roofing Systems installed by approved applicators.

9. MAINTENANCE
Periodic maintenance of roofing systems containing ACRYSHIELD A590 ensures extended performance and reduces life-cycle costs.

10. TECHNICAL SERVICES
Additional information, product brochures, and installation guide specifications are available.

11. FILING SERVICES
Additional product information is available from National Coatings.
ACRYSHIELD® A590

ASTM D6083 Technical Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Requirement</th>
<th>Typical Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial Tensile Strength (psi)</td>
<td>200 Minimum</td>
<td>280</td>
</tr>
<tr>
<td>Initial Elongation (%)</td>
<td>100 Minimum</td>
<td>430</td>
</tr>
<tr>
<td>Wet Adhesion (pli)*</td>
<td>2 Minimum</td>
<td>7.6</td>
</tr>
<tr>
<td>Permeance (perms)</td>
<td>50 Maximum</td>
<td>38</td>
</tr>
<tr>
<td>Fungi Resistance (Zero = No Growth)</td>
<td>Zero Rating</td>
<td>Zero Rating</td>
</tr>
<tr>
<td>Volume Solids (%)</td>
<td>&gt; 50</td>
<td>50 ± 2</td>
</tr>
<tr>
<td>Weight Solids (%)</td>
<td>&gt; 60</td>
<td>64 ± 2</td>
</tr>
<tr>
<td>Viscosity (KU)</td>
<td>85-141</td>
<td>110 ± 10</td>
</tr>
</tbody>
</table>

*Measured Over Sprayed Polyurethane Foam

Cool Roof Data

<table>
<thead>
<tr>
<th>Bright White</th>
<th>Method</th>
<th>Initial</th>
<th>Aged</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar Reflectance</td>
<td>ASTM C1549</td>
<td>.92</td>
<td>.87</td>
</tr>
<tr>
<td>Thermal Emittance</td>
<td>ASTM C1371</td>
<td>.87</td>
<td>.88</td>
</tr>
<tr>
<td>SRI</td>
<td>Calculated</td>
<td>117</td>
<td>110</td>
</tr>
</tbody>
</table>

VOC Data

<table>
<thead>
<tr>
<th>Properties</th>
<th>Method</th>
<th>Average Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOC</td>
<td>SCAQM’s 304-91 or EPA’s Method 24**</td>
<td>0 g/l</td>
</tr>
</tbody>
</table>

**The above VOC is a calculated value based on the formula of the products and from the raw materials properties as declared in either or both of the TDS and SDS. Calculations were based on SCAQMD’s 304-91 or EPA’s Method 24.

This product is for industrial/commercial applications only. These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use are beyond our control.