1. **PRODUCT NAME**  
**ACRYSHIELD® HIGH REFLECTANCE A179**  
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 A179** is an acrylic top coat with one of the highest solar reflectance of any other field applied coating. **A179** is designed to reduce roof degradation and prolong the life of the roof, thereby significantly lowering life-cycle costs. **A179** is used in AcryShield or AcryPly Roofing Systems and has been formulated to adhere to a wide variety of existing aged roofing systems to enhance the roofs solar reflectance.

**A179** is a superior coating for substrates that have minimal movement or in geographies where low temperature flexibility is not required. With excellent abrasion resistance, it has the ability to be applied at lower film thickness and over several different materials including: tile, cement, cementitious substrates, clay, and pavers.

**BENEFITS:**  
- Ultra High-Reflectance  
- Superior Hiding  
- Excellent Abrasion Resistance  
- Durable & Renewable  
- Glossy Finish  
- Guaranteed to Prolong Roof Life  
- Significant Energy Savings  
- Reduced Life-Cycle Costs  
- Low VOC

**APPROVALS:**  
- Energy Star  
- CRRC Rated – Prod ID 0626-0015  
- California Title 24

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 50°F.  
- 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 40°F and 100°F 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 40°F-90°F.

7. **AVAILABILITY AND COST**  
**ACRYSHIELD A179** 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 A179** 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® A179

Technical Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Method</th>
<th>Typical Results</th>
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<tbody>
<tr>
<td>Initial Tensile Strength (psi)</td>
<td>ASTM D2370</td>
<td>665</td>
</tr>
<tr>
<td>Initial Elongation (%)</td>
<td>ASTM D2370</td>
<td>255</td>
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<tr>
<td>Wet Adhesion (pli)*</td>
<td>ASTM C794</td>
<td>7.6</td>
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<tr>
<td>pH</td>
<td>Report</td>
<td>8.9</td>
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<tr>
<td>Fungi Resistance (Zero = No Growth)</td>
<td>ASTM G21</td>
<td>Zero Rating</td>
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<tr>
<td>Tear Resistance</td>
<td>ASTM D624</td>
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<tr>
<td>Permeance</td>
<td>ASTM D1653</td>
<td>26.6</td>
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<td>Water Swelling</td>
<td>ASTM D471</td>
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<tr>
<td>Volume Solids (%)</td>
<td>ASTM D2679</td>
<td>50 ± 2</td>
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<tr>
<td>Weight Solids (%)</td>
<td>ASTM D1644</td>
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<tr>
<td>Viscosity (KU)</td>
<td>ASTM D562</td>
<td>110 ± 10</td>
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</table>

* Measured Over Sprayed Polyurethane Foam

Cool Roof Data

<table>
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<tr>
<th>Bright White</th>
<th>Method</th>
<th>Initial</th>
<th>Aged</th>
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<tbody>
<tr>
<td>Solar Reflectance</td>
<td>ASTM C1549</td>
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<td>.81</td>
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<td>Thermal Emittance</td>
<td>ASTM C1371</td>
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<td>.85</td>
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<tr>
<td>SRI</td>
<td>Calculated</td>
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<td>101</td>
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</table>

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.