

# 07560 Membrane Roofing/Acrylic Coating

**NATIONAL  
COATINGS**

## 1. PRODUCT NAME

**ACRYSHIELD® A500**  
Elastomeric Roof Coating

## 2. MANUFACTURER

**NATIONAL COATINGS CORP.**  
1201 Calle Suerte  
Camarillo, CA 93012  
Phone: 800-423-9557  
FAX: 800-294-3866  
www.nationalcoatings.com

## 3. PRODUCT DESCRIPTION

**ACRYSHIELD A500** is the industry leading acrylic, elastomeric coating. **A500** has optimum adhesion to SPF. **A500** is also indicated over single-ply, asphalt, metal, and concrete roofing in colder climates where extra levels of low temperature flexibility are required. **A500** is geographically compliant with all locations. **A500** exceeds all ASTM D6083 requirements and includes a high performance fire retardant package.

### BENEFITS:

- *Seamless Waterproofing*
- *Fully-Adhered Installation*
- *Optimum Adhesion to SPF*
- *Acrylic Durability*
- *Energy Savings*
- *Prolonged Roof Life*
- *Reduced Life Cycle Costs*

### APPROVALS:

- ENERGY STAR® Product in white and sand meet guidelines.



- UL 790 Class A Rating



- Factory Mutual Standard 4470 for Class 1 Fire, Windstorm, & Hail Classification



- ICC-ES ESR-2140



- California State Fire Marshall



- CRRC Rated
  - Prod ID 0626-0002 (white)
  - Prod ID 0626-0008 (sand)
  - Prod ID 0626-0026 (light grey)



- California Title 24



- Miami-Dade County Approval



## 4. TECHNICAL DATA

See table on reverse side.

## 5. INSTALLATION

- May be applied by spray, brush, or roller.
- All surfaces must be clean, dry, and free of dirt, grease, oil, 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 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 A500** may be purchased directly from National Coatings Corporation. For information call 800-423-9557.

## 8. WARRANTY

Various warranties are available for specific **ACRYSHIELD SPF ROOFING SYSTEMS**, **ACRYPLY® ROOFING SYSTEMS** and **ACRYSHIELD RESTORATION SYSTEMS** installed by approved applicators.

## 9. MAINTENANCE

Periodic maintenance of AcryShield SPF Roofing Systems, AcryPly Roofing Systems and AcryShield Restoration Systems ensures extended performance and reduces life cycle costs.

## 9. TECHNICAL SERVICES

Additional information, product brochures, and guide specifications are available. Roof energy evaluations, life cycle cost analyses, and other roof management services are available.



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## ASTM D6083 Technical Data

Property	Requirement	Results
Initial Tensile Strength (psi)	200 Minimum	275
Initial Elongation (%)	100 Minimum	284
Dry Adhesion (pli)*	No Reference	8.5
Wet Adhesion (pli)*	2 Minimum	4.5
Tear Resistance (lbf / in)	> 60	89.2
1000-hr Accelerated Weathering	No Cracking or Checking	No Cracking or Checking
Elongation After Accelerated Weathering (%)**	100 Minimum	201%
Low Temperature Flexibility After Accelerated Weathering	Pass ½" Mandrel @ -15°F	Pass
Permeance (perms)	50 Maximum	5.8
Water Swelling (%)	20 Maximum	8.1%
Fungi Resistance (Zero = No Growth)	Zero Rating	Zero Rating
Volume Solids (%)	> 50	60 ± 2
Weight Solids (%)	> 60	68 ± 2
Viscosity (KU)	85-141	110 ± 10
* Measured Over Sprayed Polyurethane Foam		
**2,000hrs in accordance with ASTM G155 per 2009 IBC Section 1504.6/ICC-ES AC75 Section 4.2.2		

## Cool Roof Data

Bright White	Method	Initial	Aged
Solar Reflectance	ASTM C1549	.83	.73
Thermal Emittance	ASTM C1371	.88	.95
SRI	Calculated	104	91
Sand	Method	Initial	Aged
Solar Reflectance	ASTM C1549	.72	.63
Thermal Emittance	ASTM C1371	.92	.90
SRI	Calculated	89	76
Light Grey	Method	Initial	Aged
Solar Reflectance	ASTM C1549	.71	.68*
Thermal Emittance	ASTM C1371	.90	.89*
SRI	Calculated	87	83*
*CRRC Rapid Ratings: These are interim laboratory-aged values that simulate weathered values. These values will be replaced with the measured three-year aged values upon completion of the weathering process. SRI values calculated using Rapid Ratings may change once the aged rating replaces the interim rating.			

ACRYSHIELD A500 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.

