

## RUSTGRIP CERTIFICATIONS

### RUSTGRIP®

#### **\*\*TEST LISTINGS\*\***

##### 1. RUSTGRIP® PATENT

##### 2. Full List of Testing and Certifications (151 pages)

##### 3. ASTM ( American Society for Testing and Materials )



**B 117** Standard Practice for Operating Salt Spray (Fog) **Passed**  
Apparatus The coated panels were exposed in a Salt **15,000 hours**  
Fog Chamber maintained in accordance with B 117, for  
15,000 hours. The panels were evaluated periodically  
for blistering overall in accordance with **D 714** and rust  
staining overall in accordance with **D 610** and  
achieved **a perfect 10 in both** at the end of the 15,000  
hours

**C 411** 96 Hour Hot Surface Performance Passed

- Tested at 147°C (293°F)

- No Ignition, Smoking, or Smoldering

- No Change in Colour

**D 522** - Flexibility Passed

**D 1308** - Distilled Water Resistance (Immersion 24 hours) Passed

- .010" Tin plated Steel

- 1/4" Steel or Aluminum

- 24 Hour Chemical Resistance (12 Reagents) - Spot  
Test on Glass

**D 1475** - Volatile Organic Content Passed

|                                                                                                                                                                                                          |                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| <b>D 1653</b> - Water Vapor Transmission                                                                                                                                                                 | Passed                          |
| <b>D 2369</b> - Volatile Organic Content                                                                                                                                                                 | Passed                          |
| <b>D 2370</b> - Visco-Elastic Properties                                                                                                                                                                 | Passed                          |
| <b>D 2486</b> - Scrub Resistance                                                                                                                                                                         | Passed                          |
| - Black Plastic - No Break thru after 12 cycles                                                                                                                                                          |                                 |
| <b>D 2794</b> - Direct Impact Resistance                                                                                                                                                                 | Passed                          |
| <b>D 3273 / D 3274</b> - Mildew Resistance                                                                                                                                                               | Passed                          |
| <u><b>D 3359</b></u> Adhesion and Penetration testing                                                                                                                                                    | Passed                          |
| - Penetration through 18 layers of Oil Base Paint                                                                                                                                                        |                                 |
| - Rated 5A = Excellent                                                                                                                                                                                   |                                 |
| - <u><b>MICRO PHOTOGRAPH</b></u>                                                                                                                                                                         |                                 |
| <b>D 3960 / D 4017</b> - Volatile Organic Content                                                                                                                                                        | Passed                          |
| <b>D 4060</b> Tabor Abrasion Resistance                                                                                                                                                                  | Passed                          |
| - Dry Abrasion Resistance                                                                                                                                                                                |                                 |
| - 1000 Cycles with a CS 17 Wheel, 1000 gram Load                                                                                                                                                         |                                 |
| - 18 milligram loss per 1000 Cycles, rated Excellent                                                                                                                                                     |                                 |
| <u><b>D 4541</b></u> Standard Method for Pull-Off Strength of Coatings using Portable Adhesion Testers                                                                                                   | Passed                          |
| - Average Pull-Off Strength = 1,467 psi                                                                                                                                                                  |                                 |
| <u><b>D 5894-10</b></u> Standard Practice for Cyclic Salt Fog/UV Exposure of Painted Metal, (Alternating Exposures in a Fog/Dry Cabinet and a UV/Condensation Cabinet.) Blistering & Rusting Evaluation. | Passed 1000, 5000, 10,000 Hours |
| <u><b>D 6904</b></u> Standard Practice for Resistance to Wind-Driven Rain for Exterior Coatings Applied to Masonry                                                                                       | Passed                          |

**D 7088** Standard Practice for Resistance to Hydrostatic Pressure for Coatings Used in Below Grade Applications Applied to Masonry

**E 108** Standard Test Method for Spread of Flame of Roof Coverings

Rating

**E 1795** BioHazard Encapsulation Certification

Conforms to all requirements

- Direct Impact Resistance
- Adhesion
- Dry Abrasion Resistance
- Water Vapor Transmission
- Flexibility
- Water and Chemical Resistance
- Water Immersion
- Surface Burning Characteristics
- Volatile Organic Content
- Weathering (1000 hours)
- Aging (interior and exterior)
- Scrub Resistance
- Mildew Resistance
- Paint / Repair Ability
- Tensile Properties

**E 84** - Surface Burning Characteristics

Passed

**G 20** Standard Test Method for Chemical Resistance of Pipeline Coatings.

**G 85** Prohesion over rusted metal

Passed

- Rated 9 (out of a possible 10 rating)

#### 4. US Army Corp of Engineers



- Test Report

Passed

Moisture-Cure Urethane Coatings for Compliance with Industry Specifications SSPC Paint 41

#### 5. Society of Petroleum Engineers



- Test Report

Passed

Society of Petroleum Engineers and Workstrings International selected RUST GRIP as the final choice for protection of steel from Salt Water and ZnBr Completion Fluids.

#### 6. Factory Mutual Approval



- ASTM E 108 Tested and Approved for Roofing and all Class A other Applications

\*Superior Products International II, Inc. is an active member of the NRCA.

( National Roofing Contractors Association )

#### 7. WINDOW CYCLING Test

Opening/Closing of treated window to measure friction/wear

Passed

- Completed 20,000 cycles of opening / closing the window. 54 years of protection

8. [DNV Certification](#)

Passed



- DNV Audit and DNV Compliant

Passed

- ASTM B 117, D 163, D 522, D 3359, D 4060, & E 1795

- Official DNV Certification of [RUSTGRIP](#)® for Maritime usage. DNV Certified

9. [State of Louisiana Department of Transportation](#)

10. [State of Oklahoma Department of Transportation](#)

11. [State of Tennessee Department of Transportation](#)

12. [ABS Coast Guard Approval](#)



13. [Transport Services Division](#) Pavements & Structures Section – Materials Group



Pull tests rated equal to 1100 psi.

14. [Aramco Oil in Saudi Arabia Approval for Asbestos Encapsulation](#)

Approved Product

15. **VTEC Laboratories INC**



## Thermal analysis

16. LEED - Leadership in Energy & Environmental Design

Approved  
product



May 1, 2007 (revised May 21, 2007) (Washington, DC) –  
The U.S. Green Building Council (**USGBC**) has  
announced that projects seeking certification under the  
LEED® Green Building Rating System™ can now earn an  
"Innovation in Design" point by using the Cradle to  
Cradle program for certified building products.



## GOLD CERTIFICATION

17. USDA (United States Department of Agriculture )



- Letter of Authorization from USDA Product Safety  
Branch

USDA  
Approved

- Letter of Written Certification as Accepted by USDA  
from Manufacturer

Approved

- Environmentally safe and safe for use around animals Passed

18. CFIA Canadian Food Inspection Agency

Accepted construction material

Passed

19. China Center for Technical Testing

National Measurement M0729

|                                                       |         |
|-------------------------------------------------------|---------|
| GB/T 1771-91 - Resistance to Salt Fog (2000 hours)    | Passed  |
| GB/T 1866-88 - Manual Aging (2000 hours)              | Passed  |
| GB/T 10834-88 - Resistance to Salt Water (1000 hours) | Passed  |
| GB/T 5219-85 - Adhesion (pulling apart method)        | 4.07MPa |
| GB/T 1733-93 - Boiling Water Immersion                | 8 Hours |