

## DESCRIPTION

ProGuard Roofing Spray Grade rubber was designed to double the life expectancy of the existing roof system. With the use of exceptional products and knowledgeable installers the ProGuard Building Products are an excellent economical choice for the owner. The ProGuard membrane is a durable membrane with multiple application methods

## FEATURES AND BENEFITS

### ELONGATION & RECOVERY

Over 800% elongation with a recovery of over 80%. Traditional products have 100% - 500% elongation but most have a recovery rate of less than 50% if they have any recovery at all.



### SELF REPAIRING

This is a very unique benefit that most products don't have. The ProGuard Membrane is self sealing when punctured and has self healing properties when cut.

### ENVIRONMENTALLY FRIENDLY

The ProGuard Products are a smart eco-friendly alternative to most conventional products and have the following benefits:

- Water based
- Cold fluid applied
- Require no heat or special ventilation
- Contain no solvents and emit no VOC's
- Minimizes the burden on landfills



## THE PRODUCT

### PROGUARD ROOF GRADE RUBBER

A superior fluid applied rubber that combines the elastic properties of a modified latex with the weatherproofing and waterproofing qualities of a highly refined emulsified asphalt. PGG has also further refined the Roof Grade Rubber to meet particular application needs and uses. The Roof Grade Rubber is available as either a dual component or single component system.

#### • Roofing Spray Grade

Designed to be used in conjunction with the ProGuard Catalyst for use with dual component system.

#### • Roofing SL Grade

This is a single component material that can be sprayed or applied manually.

#### • Roller/Trowel Grades

Designed for use in the preparation and detailing prior to the installation of either the dual or single component systems.



## PERFORMANCE DATA

TEST	TEST PROCEDURE	RESULTS
Elongation at Break	ASTM-D-468	>800% Max machine stroke reached
Elongation	ASTM-D-412	>800%
Recovery	ASTM-D-412	>80%
Tensile Strength	ASTM-D-412	208.2psi @ 1001% elongation 1600 psi @ 450% elongation Materials Did Not Fail
Tensile	ASTM-D-413	2000 lbs./ft <sup>2</sup> Up-lift Force
Peel Strength	ASTM-D-903	Materials Did Not Peel
Puncture Resistance	ASTM-E-154	No Puncture
Water Absorption	ASTM-D-570	1.02% Max
Water Vapor Trans.	ASTM-E-96	.08 Grains/Hr/ft <sup>2</sup>
Permeance	ASTM-E-96	.46 Grains/Hr/ft <sup>2</sup>
Resistance to Hydrostatic Head	Calders Testers Hydro Stand 10-30K	150 PSI
Class A Fire Rating ½": 12	ASTM-E-108-94	Passed
Soil Burial	ASTM-D-4068	Passed
Ash Content	ASTM-D-2939	2.98%
Direct Flame Test	ASTM-D-2939	Passed
Drying Time	ASTM-D-2939	Passed
Extensibility after heat aging	ASTM-C-836	¼ Inch stretch with no cracking
Flash point	ASTM-D-2939	>140°F
High Temp Aging	ASTM-E-240	>300% 48 days @ 176°F
Hydrostatic Pressure	ASTM-C-1306	16.67% over cracks
Low Temp Elongation	ASTM-D-412	>500%
Methane transmission rate	MOCON Multi Tran 400	<5 CC/(m <sup>2</sup> -day)
Noise Reduction	ASTM-E-1007	98% @ 205 mil
Uniformity	ASTM-D-2939	Pass
Wet Film Continuity	ASTM-D-2939	Pass
Freezing Resistance	ASTM-D-2939	Pass
Heat Resistance	ASTM-D-2939	Pass
Resistance To Voltitization	ASTM-D-2939	0.84% Loss
Resistance To Kerosene	ASTM-D-2939	Pass
Residue By Evaporation	ASTM-D-2939	>60%
Resistance To Water	ASTM-D-2939	No signs of Re-emulsification
Puncture Resistance	ASTM-E-154	No Puncture @ Deflection Max machine stroke reached
Impact Resistance	ASTM-D-2939	Pass
Impact Resistance after Accelerated Weathering	ASTM-D-2939	Pass
Salt Fog Exposure	ASTM-B-117	No Deterioration or failure
Peel Strength asphalt	ASTM-D-903	>10 lbf/in
Peel Strength Concrete	ASTM-D-903	>12 lbf/in
Peel Strength Foam	ASTM-D-903	>7.5 lbf/in Substrate failed prior to adhesion failure
Peel Strength Steel	ASTM-D-903	>11 lbf/in
Peel Strength Wood	ASTM-D-903	>11 lbf/in
Peel Strength	ASTM-D-903	Did not Peel

## PREPARATION

All surfaces should be free from an loose material, oils, grease, or other foreign materials. These should be removed prior to application by means recommended by the manufacturer.

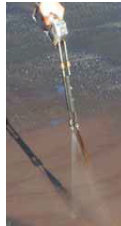
All cracks, penetrations, existing seams, corners, terminations and transitions should be addressed using a polyester fabric with the ProGuard Roller/Trowel Grades.



## APPLICATION

### DUAL COMPONENT SYSTEM

Apply the ProGuard Roof Grade over the entire surface using specialized spray equipment. Utilize spraying techniques taught during the ProGuard Training. Due to the instant set properties of the dual component system these techniques must be strictly followed. A polyester reinforcement fabric will be incorporated through the entire system. Allow to reach full cure prior to any subsequent rubber application.



### SINGLE COMPONENT SYSTEM



Apply the ProGuard Roof SL Grade either by hand or using a commercial airless sprayer recommended by ProGuard. Utilize spraying techniques taught during the ProGuard Training. A polyester reinforcement fabric may be incorporated for additional strength.

### TOP COATS

**Flexcoat and B -Series Urethanes** - Apply these top coats only after full cure of the ProGuard membrane. If applying over the dual component system the membrane must be rinsed and dry prior to application. Apply by commercial airless sprayer recommended by ProGuard or by hand utilizing a chemical resistant 3/8 nap roller.



**ProGuard Granules** - Apply by hand or specialized equipment recommended by ProGuard.

**Single Component System** - Apply the granules simultaneously with the Roofing SL Grade.

**Dual Component System** - Allow the membrane to reach full cure and rinse the membrane with water. Apply a 8-10 mil tack coat of Roofing SL Grade to the membrane while simultaneously applying the granules.

## DRY TIME (@ 70° F & 50% RH)

### To TOUCH

Dual Component System - Immediately  
Single Component System - 4 to 6 hours

### EXPOSURE TO SHEDDING WATER

Dual Component System - Immediately  
Single Component System - 4 to 6 hours







### FULL CURE

Dual Component System - 72 -96 hours  
Single Component System - 72 -96 hours

Cure & Dry times will vary due to temperatures and humidity.

## COVERAGE RATES (DRY)

### COVERAGE RATES PER GALLON (DRY)

30 mil / .762 mm - 34.7 ft <sup>2</sup> / 3.22 m <sup>2</sup>	
40 mil / 1.02 mm - 26.0 ft <sup>2</sup> / 2.42 m <sup>2</sup>	
60 mil / 1.52 mm - 17.3 ft <sup>2</sup> / 1.61 m <sup>2</sup>	
80 mil / 2.03 mm - 13.0 ft <sup>2</sup> / 1.21 m <sup>2</sup>	
100 mil / 2.54 mm - 10.4 ft <sup>2</sup> / 0.97 m <sup>2</sup>	
125 mil / 3.17 mm - 8.3 ft <sup>2</sup> / 0.77 m <sup>2</sup>	

### SYSTEM THICKNESS REQUIREMENTS

**Roof Grade Rubber Membrane** - 40-100 Mil  
**Top Coat** - 20-30 mil

## WARRANTY

Warranty Information is available by contacting ProGuard Building Products.

## LIMITATIONS

Must be stored and applied at temperatures above 40° F (4° C). Contact ProGuard if application temperatures fall or are expected to fall below 40° F (4° C).

Please read all information in the general guidelines, product data sheets, guide specifications and safety data sheets (MSDS) before applying material. Published technical data and instructions are subject to change without notice. Contact your local PPG representative or visit our website for current technical data and instructions.

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