

# PERFORMANCE GRADE RUBBER DATA SHEET



IPP has developed a superior fluid applied rubber that combines the elastic properties of a modified latex with the weatherproofing and waterproofing qualities of a highly refined Liquid Rubber. IPP has also further refined the Performance Grade Rubber in order to meet particular application needs and uses. The Performance Grade Rubber is available as either a dual component system or single component system.

## FEATURES & BENEFITS

### ENVIRONMENTALLY FRIENDLY

Water based material that contains no VOC's, so no special ventilation is required.

### FLUID APPLIED

Requires no heat and creates a monolithic Seamless membrane.

### ELONGATION & RECOVERY

Has excellent elongation and recovery which allows for thermal expansion and contraction.

### ADHESION

Has superior adhesion to most construction materials.

### CHEMICAL RESISTANCE

Has great chemical resistance to most non-petroleum based chemicals.

### TOP COAT

Can be coated with various types of top coats for reflectivity and greater chemical resistance.

### SELF HEALING & SEALING

Has self healing and self sealing properties when cut or punctured.

### ECONOMICAL

Due to the minimal preparation and ease of application.

## SOME OF THE USES

### WATERPROOFING

Above grade, below grade, and blindside.

### CONTAINMENT

Primary and secondary containment.

### VAPOR BARRIER

Primary and secondary above and below grade.

### CIVIL

Water and gas vapor barrier.

### LINERS

Erosion control, bridges, dam, tunnels.

### CORROSION CONTROL

Ponds, tanks, fisheries.

### ROOFING

Tanks, seawalls, and pipes. Preservation of various roofing materials.

## THE DUAL COMPONENT SYSTEM

This system consists of the Performance Spray Grade and a catalyst. The chemical reaction between the Performance Spray Grade and the catalyst results in an instant seamless rubber membrane. The instant set allows the seamless membrane to be in direct contact with water immediately. This feature also allows for the material to be applied either horizontally or vertically up to 150 mil thick in one application. Although the membrane still requires time to fully cure it is approximately 80% cured upon when the two materials come into contact. Although this feature is a very unique it does require specialized equipment and training to be applied correctly. This system is also not recommended for all types of applications.

## TESTING

TEST	TEST PROCEDURE	RESULTS
Elongation at Break	ASTM-D-3468	>1,000%
Recovery	ASTM-D-412	>90%
Tensile Strength	ASTM-D-412	Materials Did Not fail
Tensile	ASTM-D-413	2000 lbs./ft2 Up-lift Force
Peel Strength	ASTM-903	Materials Did Not Peel
Puncture Resistance	ASTM-E-154	No Puncture
Water Absorption	ASTM-D-570	1.02% Max
Water Vapor Permeance	ASTM-E-96	.08 perms
Resistance to	Calders Testers	150 PSI
Hydrostatic Head	Hy-droStand 10-30K	
Class A Fire Rating 1/2": 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	1/4 Inch stretch with no cracking
Flash point	ASTM-D-2939	>140°F
High Temp Aging	ASTM-E-240	>300% 48 days @ 76°F
Hydrostatic Pressure	ASTM-C-1306	16.67% over cracks
Low Temp Elongation	ASTM-D-412	>500%
Methane transmission	MOCON Multi Tran 400	<5 CC/(m2-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 Volatilization	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 Maxmachine 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
Adhesion To Masonry	ASTM-C-836	>5 lbf/in
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
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

## PERFORMANCE SPRAY GRADE

Applied in conjunction with the Instacoat Catalyst using specialized spray equipment. Available in 5 gallon pails, 55 gallon drums and 275 gallon totes.

## INSTACOAT CATALYST

Applied in conjunction with the Performance Spray Grade using specialized spray equipment. Available in 50 lb pails dry and 5 gallon pails and 55 gallon drums wet.

## PERFORMANCE ROLLER/BRUSH, SL & TROWEL GRADES

Designed to be used for preparation and detailing for the dual component system. Applied using roller or brush. Available in 5 gallon pails and 55 gallon drums.

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## THE SINGLE COMPONENT SYSTEM

The single component system is not an instant set system but after full cure has been achieved the properties of this system are identical to the dual component system. The single component was developed to be used in conjunction with the dual component system as well as a standalone system. This system is also used where the dual component system is either not necessary or cannot be used. This system does not require any specialized equipment or training to be applied although it can be sprayed with a commercial airless spray system. The Single component system consists of the following products:

### PERFORMANCE SL (SELF LEVELING) GRADE

Applied manually or with commercial airless spray system.

### PERFORMANCE ROLLER/BRUSH & TROWEL GRADES

Designed to be used for preparation and detailing for the single component system.

Available in 5 gallon pails and 55 gallon drums.

## PREPARATION

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

All cracks, penetrations, existing seams, transitions, and corners should be addressed using a polyester or geo-textile fabric and the Instacoat Premium Products Performance Roller/Brush or Trowel Grade.

## APPLICATION

The Performance Grade are applied using the methods described above to form a seamless membrane. Application rates vary depending the particular job requirements. Mask off adjoining areas to protect from over-spray if being applied by spray equipment.

### DRY TIME (@ 70° F AND 50% RH)

(Dry times may vary due to temperature and humidity.)

### TO TOUCH

Dual Component-Immediately Single Component-4 to 6 Hours

### EXPOSURE TO WATER

Dual Component-Immediately Single Component-4 to 6 Hours

### FULL CURE

Dual Component-72 to 96 Hours Single Component-72 to 96 Hours

## COVERAGE RATES (DRY)

(Cure times may vary due to temperature and humidity.)

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>	=====
125mil / 3.17mm	- 8.3ft <sup>2</sup> /0.77m <sup>2</sup>	=====

Standard coverage rates by application - Waterproofing: 60 mil, Roofing: 60-100 mil, Containment: 30-100 mil, Liner: 80-100 mil, Vapor Barrier: 10-40 mil, Corrosion Protection: 10-40 Mil.

Coverage rates will depend on particular project and warranty requirements.

## CLEANING

Clean all application equipment using diesel fuel or equivalent after each use for the best performance.

## MAINTENANCE

No maintenance is required.

## WARRANTY

Warranty information is available by contacting Instacoat Premium Products.

## LIMITATIONS

Must be stored and applied at temperatures of 40° F / 4° C or above. Contact IPP if application temperatures fall below 40 F/ 4 C or below.

## TECHNICAL SERVICES

Technical Services, specifications, and other information is available by contacting Instacoat Premium Products.

## TOPCOATS

The Instacoat Seamless Membrane may be top-coated for UV protection, chemical resistance, or just aesthetics. IPP carries a full line of urethanes and granules. Contact IPP or your local IPP representative for details.

## ENVIRONMENTAL

INSTACOAT Performance Grade products are a smart, Eco-friendly alternative to most conventional products. This is a durable membrane with multiple application methods.

- Water Based
- Emits no VOC's
- Minimizes Waste



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

## DISCLAIMER

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the users responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and IPP makes no claim that these tests or any other tests, accurately represent all environments.

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