



# IPALASTIC ELASTOMERIC WALL COATING

A High Quality Waterproof Coating for Exterior Application

## IPALASTIC – Product Data Sheet

### Water-Based Acrylic Coating

Description:

**IPALASTIC** elastomeric coating is a single component acrylic base protective material that expands and contracts with the movement of the substrate to which it is applied. The cured film moves without rupturing due to its elastic properties that permit a high degree of elongation.

Uses:

**IPALASTIC** elastomeric coating is a reflective and protective coating for vertical and overhead substrates such as concrete, masonry, block, stucco, wood, metal and other porous and non-porous surfaces.

Advantages:

Waterproof/weatherproof protection against the elements. Highly resistant to ultraviolet radiation. Excellent resistance to dirt pick-up and mildew. Contains no plasticizer (will not become brittle with age). Superior hailstone resistance. Easy, economical, environmentally safe application. Solvent-free, non-flammable and gives off no offensive odors. Stable under the influence of heat and flexible at low temperatures. Excellent reflectivity preventing accumulation of heat. Will adhere to moist surfaces.

- Monolithic –** **IPALASTIC** liquid elastomeric coating provides a seamless uniform wall system
- Flexibility –** **IPALASTIC** has proven effective against cracking during elongation and flexural tests under laboratory and field conditions.
- Versatility –** **IPALASTIC** can be applied over concrete, masonry, block, stucco, wood, metal or other porous or non-porous surfaces.
- New or Old –** **IPALASTIC** is designed to be an effective elastomeric membrane in new, rehabilitated or restored applications.
- Lightweight Problem Solver –**  
**IPALASTIC** weighs less than 25 lbs. per 100 sq. ft. – Typical 2 coat application.
- Reflects UV Radiation –**  
**IPALASTIC** reflects the sun's damaging ultraviolet radiation and reduces its destructive effects. At the same time, it reduces the surface temperature and decreases heat build-up within the subsurface or structure.
- Breathes –** **IPALASTIC** effectively seals out the weather while allowing the substrate to breathe. Breathing prevents damage by dry rot, water pocket build-up, blistering and also inhibits moisture saturation which prevents loss of insulation efficiency.
- Solvent Free –** **IPALASTIC** is an easy to apply water-based acrylic formulation. Tools clean-up with water.

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### TECHNICAL DATA:

Shelf Life: One year in unopened container.

Color: IPALASTIC is available in 15 standard colors and white. Custom blended colors are available upon request. Contact your distributor for color matching details.

Texture: IPALASTIC is manufactured in smooth, fine and coarse textures.

Coverage: Will vary with the applicator and porosity of the surface to be coated. One gallon of IPALASTIC (Smooth) will cover approximately 100 sq. ft. at a dry film thickness of 8 mils.

Packaging: IPALASTIC is available in 5 gallon pails and 55 gallon drums through IPA Systems Distributors.

### Physical Properties: (After 2 year exposure)

Tensile strength	218 psi (1.5 MPa)
Recovery	60%
Elongation at maximum stress	187%
Elongation at break	233%
Low temperature flexibility	
0°F (-17.8°C)	Pass*
-15°F (-26.1°C)	Pass
-34°F (-36.7°C)	Pass
Dirt pick-up resistance	Excellent
Mildew	None
Viscosity	126 k.u.
Total solids	68.9%
Weight	12.3 lbs/gallon (1.5 kg/l)
Percentage plasticizer	None

### Additional Data – Maximum 2 Week Cure

Dry peel adhesion	Excellent
Wet peel adhesion	Excellent
Tensile strength at maximum stress	169 psi (1.2 MPa)
Tensile strength at break	135 psi (0.9 MPa)
Elongation at maximum stress	80%
Elongation at break	325%
Recovery after 25% elongation	72%
Low temperature flexibility at -15°F (-26.1°C), 1 week cure	Pass
300 hour Weather-O-Meter	Pass
Acid resistance	Good
Base resistance	Good
Water Immersion and Simulated Rain Test (asphalt shingle) adhesion loss, film degradation/wash-out	None

Note: Pass = 180 bend; adhesion, tensile strength and elongation tests were conducted using the Instron Tensile Tester

### Surface Reflectivity:

Bright Sunlight 1 year exterior exposure

	<u>Air Temp (°F)</u>	<u>Asphalt Shingle</u>	<u>Polyurethane Foam</u>	<u>Wood</u>	<u>Steel</u>
Coated	82	95°	92°	88°	96°
Uncoated	82	158°	120°	117°	155°

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### INSTALLATION:

#### Surface Preparation and Application:

All surfaces to be coated must be cleaned of any film, scale, loose material, oils, grease and any other foreign material that will prohibit bond or cause staining of the IPALASTIC. Any holes or uneven cracks or joints should be repaired and leveled prior to the installation of IPALASTIC. Surface should be dry; however, IPALASTIC can be applied to a moist base. Soft wood, subject to expansion and contraction, should be primed with a quality exterior latex primer. Galvanized metal should be oxidized or treated with a wash primer.

On previously coated surfaces, prestressed concrete with extremely slick surfaces, concrete which has been finished with a carborundum stone and paste, or surfaces which have been dusting, a primer coat may be required to attain a proper bond.

Where these conditions exist a trial application area should be prepared and a test made to determine adhesion and compatibility with the existing surface. See IPALASTIC "Technical Bulletin No. 1." If the adhesion test results are not satisfactory, additional preparation or priming is necessary.

Use IPALASTIC primer on cement based repairs and chalking surfaces.

IPALASTIC may be applied with a brush, roller or spray equipment. Always apply IPALASTIC continuously to natural breaks. When detailing hairline cracks with IPALASTIC prior to coating, feather edge material away from cracks to avoid read-through.

MIXING RATIO: Apply directly from the container after mixing. DO NOT add additional water.

DRYING TIME: Two to three hours. Second coat may be applied after 24 hours.

#### Limitations:

Do not install IPALASTIC unless substrate and air temperature are at least 40°F (4.4°C) and not expected to drop below 40°F (4.4°C) within 24 hours. Do not apply when the surface temperature exceeds 100°F (37.8°C). IPALASTIC will not withstand negative side water pressure or rising damp. Do not apply IPALASTIC to horizontal surfaces that pond water.

### **CAUTION – FOR INDUSTRIAL USE ONLY**

### **WARRANTY**

This product is warranted and guaranteed to be of good quality. Manufacturer, as its sole and exclusive liability hereunder, will replace material if proved defective. THIS WARRANTY AND GUARANTEE ARE EXPRESSLY IN LIEU OF ALL OTHERS, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND MAY NOT BE EXTENDED BY REPRESENTATIVES OR ANY PERSONS, WRITTEN SALES INFORMATION, OR DRAWINGS IN ANY MANNER WHATSOEVER.

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