



**IMMUNACOAT®**  
Sterile, Durable, and Appealing



## Antimicrobial Aliphatic Polyurethane

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IMMUNACOAT® ANTIMICROBIAL  
ALIPHATIC POLYURETHANE COATING

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Packaging and Finishes

## Immunacoat® Antimicrobial Aliphatic Polyurethane Coating

Immunacoat Aliphatic Polyurethane is a two-component, high performance, zero-volatile organic compounds (VOC), odorless, water-based, all organic coating with anti-microbial additives that protect the coating from viruses, bacteria, mold/mildew, fungi, and algae. Immunacoat also provides years of excellent protection against harsh weather conditions, UV exposure, corrosion, physical damage, and has elastomeric properties. Immunacoat acts as a breathable elastomeric waterproofing coating and can be applied in low temperature conditions down to 40 °F.

- UV Resistant Will Not Yellow
- Zero VOC- SCAQMD Compliant
- Choice of High Gloss, Satin or Matte Finish
- Clear & White Color
- Excellent Adhesion
- Outstanding Chemical Resistance
- MEK Double rub @50% solids Passed 2,000 Cycles Test
- For Concrete, Brick, Wood, Metal, Tile (glazed & unglazed)

Immunacoat also has anti-graffiti properties that allows the removal of nearly any type of graffiti on the surface with a simple cleaner, eliminating the need for heavy and harsh chemicals. For a small upgrade fee, The anti-graffiti properties can be enhanced to meet a higher standard.

The coating can be sprayed, brushed, or roller applied. Immunacoat is unique in that it has no VOC's due to its total water-based formulation. When fully cured, this product has good chemical acid resistance, ultraviolet (UV) protection, excellent water resistance, abrasion resistance, flexibility, and is environmentally safe.

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## Process

### What comes in a kit?

Part A    Part B Kit Makes\*:

1 Quart 1 Pint 1 Quart    Coverage = 75-100sqft

1 Gallon 1 Quart 1 Gallon    Coverage = 300-400sqft

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Immunacoat Aliphatic Polyurethane is a two-component product, packaged as either a one quart and one gallon pair or a quart and one pint pair.

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### COVERAGE RATE

Substrates	Sq Ft/Gallon
Textured Surfaces	Approx. 250 – 300
All Masonry Surfaces	Approx. 300
Painted Surfaces	Approx. 400
Wood Surfaces	Approx. 300
Metal	Approx. 400
Tile	Approx. 350

### Limitations

- Immunacoat® should be tested on all substrates before complete application □ Do not apply in humidity above 80% or rain.
- Horizontal surfaces coated with Immunacoat® may become slippery when wet, we recommend an anti-slip additive like (i.e. Shark Grip) to maintain OSHA ADA standard coefficient of friction of 0.6(level) and 0.8(ramp).
- Should not be applied in high wind, rain or when the ambient temperature is below 5 °C (40 °F).
- Certain porous surfaces may require sealer or block filler to allow the Immunacoat® to create a more desirable application and maintain the integrity of the surface. Test patch should be applied before the final application.
- For wood applications a fast drying, water based acrylic wood primer is recommended.
- Do NOT over apply. More is NOT better. A heavier application can cause micro blistering and affect the finish.
- When using white color Immunacoat® over previously painted surface, test first to confirm it will provide the hide needed in a one or two coat application. Lighter colors will be easier to cover in one coat.
- Physical properties are typical values and not specifications.

### RECOMMENDED USES

- A. Protect high-contact surfaces from Graffiti, Viruses, Bacteria, Mold, Mildew and

Fungus in Bathrooms, Public Transportation, Hospitals, Restaurants, Warehouses. Garage Floors, Airports, USDA Inspected Facilities, Stadiums, Commercial Vehicles and other high-contact public surfaces.

- B. Non-yellowing topcoat, UV-resistant applications.
- C. Direct-to-metal and concrete applications.
- D. Chemical and acid resistant applications.
- E. Tile Floors & Walls.

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## Specifications

Solids by Weight	Clear 60% (+/-2%) Pigmented 66% (+/-2%)
Solids by Volume	50%
VOC	0 g/L (mixed)
Colors	Clear and white
Recommended Film Thickness	3-4 mils wet, 1.5-2 mils dry (Do not apply over 5 mils wet)
Coverage per Gallon	250 – 400 sq'/gal @3-4 mils wet thickness
Packaging	32 oz kit, 1 gallon kit, 4 gallon kit
Mix Ratio	2.25:1 mix ratio by volume
Shelf Life	1 year in unopened container
Finish	High gloss (>90 at 60 degrees @glossmeter)
Gloss Loss	<10% ASTM D523
Color Loss	<1.1% ASTM D2244
Humidity	1500+ hours ASTM D2244
Salt Spray	1500+ hours ASTM B117
Abrasion Resistance	< 40 mg ASTM D4060
MEK Double rub @50% solids	Passed 2,000 cycles
Flexibility	Pass ASTM 2794
Adhesion	Pass ASTM D2197
Odor	None
Hardness	> 2H

## Mix and Application

After mixing, the components may be reduced with water. Typical spray applications require a 5 to 10 percent reduction. **Do not exceed 15%**

**SURFACE PREPARATION:** Make sure all contamination such as dirt, oil, and grease have been removed from surface that could impact adhesion.

## PRODUCT MIXING:

- Stir part A for 2 minutes with Jiffy Mixer type drill mixer at slow speed (500 rpm) to fully disperse the mixture.
- To catalyze product (get it ready to use) pour Part B into Part A slowly and mix for 2-3 minutes.
- Pour a portion of mixed Part A and B back into Part B can until full and mix well for 30 seconds, then pour back into the mixed Part A and B can.
- Allow product to stand for 5 minutes before applying. Loosely cover mixed product
- **DO NOT RESEAL MIXED PRODUCT!**
- Product may be reduced with clean water to achieve desired viscosity. We recommend using distilled water, but tap water works fine.
- Typical spray applications require a 5% to 10% reduction with water. Do NOT exceed 40%. For roller applications don't exceed 40%.
- Do **NOT** reduce catalyzed product after 30-minutes.
- **IMPORTANT:** Mark time to establish pot life from when you start mixing A and B. Pot life is 3/4 to 1 hour.
- Do NOT mix with other products or other containers of Immunacoat.

Improper mixing may result in product failure. For best mixing results and proper blending of parts A and B, recommend a (Jiffy Mixer) style drill mixer.

**REDUCTION (OPTIONAL) REDUCTION // CLEAR** Pour the contents of Part B into Part A. After mixing the components well (as described below) for approximately two (2) minutes, it may be reduced with water up to twenty percent (40%). Typical spray applications require a 5% to 10% reduction. Do not exceed 40%. **REDUCTION // WHITE** Pour the contents of Part B into Part A. After mixing the components well (as described below) for approximately two (2) minutes, it may be reduced with water up to eight percent (8%). Typical spray applications require a 5% to 8% reduction. Do not exceed 8%

*\*See mixing instructions for dilution percentages* **PRODUCT APPLICATION: IMPORTANT:** Proper methods to protect from over spraying should be implemented. Atomized particles will adhere to most surfaces and are extremely difficult to remove. Temperature and humidity directly affect pot life and dry time. Conditions should be between 40 – 95 °F (5 – 35 °C) and humidity should not exceed 80%. Can apply using brush, roller or sprayer. **Smooth Surfaces** Immunacoat® may be applied directly over most surfaces without primer. Apply a light coat at a thickness of 3 to 4 wet mils. Do not exceed 5 mils. Reduction may create optimal flow. Dry mils thickness is 1.5-2. Ferrous metal surfaces do not require primer before application.

When rolling product, recommend 1/4" nap lint free roller for smooth surfaces **Porous Surfaces** Most porous surfaces should have a sealer or filler to adequately eliminate potential pinholes prior to applying Immunacoat®.

## **PRODUCT APPLICATION**

- For unpainted porous surfaces, use sealer or filler prior to application of Immunacoat®

- Apply one coat of Immunacoat® (3-4 mils wet per coat) allowing 4 hours between coats or when coating is tack free (pressing thumb into surface and no thumbprint remains).
- Any runs should be brushed out rolled out immediately before drying.
- When dry, thickness is 1.5 – 2 mils.
- When rolling product, recommend 3/4" nap lint free roller cover for porous and textured surfaces.

\*For heavy duty applications such as warehouse floors with heavy forklift traffic, total DFT thickness should be 3-4 mils (2 coats) **RECOAT OR TOPCOATING:** Multiple coats of this product are acceptable. When recoating this product, it is advisable to apply the recoat before 24 hours passes. If the first coat has dried longer than 24-hours, abrade the surface to promote adhesion for the second coat. **CLEANUP:** Clean up promptly with mild soap and water before product cures. Dispose of according to local, state and federal regulations.

**PRODUCT STORAGE:** The recommended storage temperature is approximately 22 °C (72 °F). Do not damage containers. Store in a dry place. Do not store for extended periods in direct sunlight. Protect containers from resin and moisture contamination.

#### PERSONAL PROTECTION

1. **Immunacoat** is a zero-VOC coating. The volatile to evaporate will be water. No special clothing or respirators are required after mixing.
2. Due to its water-based formulation, the hazard of flammability is removed.
3. Take precautions when handling Part B prior to mixing. Mix in well-ventilated area and avoid skin contact.

#### CLEAN UP

- Clean up brushes and trays with mild soap and water immediately after use and before product cures.

#### DISPOSAL

- Catalyzed product will harden overnight and once hardened can be disposed of as standard solid waste according to local, state, and federal regulations.

#### Physical Properties

<b>Percent Solids (PBW)</b>	Clear/Matte (□2%)/58%	60
<b>Dry Time</b>	4 – 8 hours	
<b>Cure Time</b>	3 – 7 days	
<b>Pounds Per Gallon</b>	Part A 9.2lbs/gallon. Part B 8.7lbs/gallon	

#### CURE SCHEDULE

Pot Life                                      3/4 to 1 hour  
Tack Free (dry to touch) 4 hours

Recoat 4 – 8 hours Full Cure 3 –  
7 days **MIXING INSTRUCTIONS**

1. To catalyze product, pour Part B into Part A and mix for 1 (one) minute.
2. Add water to fill line on Part B can for 20% reduction.
3. Pour water from Part B into Part A and mix for 2 (two) minutes.
4. **Important:** Mark time to establish pot life. Pot life is 1 (one) hour.
5. Product should not be mixed with other products or other containers of **the product**.
6. Do not reseal catalyzed product.

**Delivery:** Materials shall be delivered in the original sealed containers, clearly marked with manufacturers name and type of material.

### Why use Immunacoat?

- Scratch Resistant
- Great Chemical & Acid resistance
- MEK Double rub @50% solids passed 2000 Cycles Test
- Non-yellowing & UV resistant topcoat
- Apply Direct-to-Metal & Concrete
- Excellent as a protective floor coating or top coat applied over a primer epoxy, as a high-gloss, chemical/acid resistant topcoat for industrial concrete flooring applications
- Breathable elastomeric water proofer
- Zero VOC – SCAQMD Compliant
- Choice of High Gloss, Satin or Matte Finish
- Comes in Clear or White Color
- Excellent Adhesion
- Use on a wide range of surfaces and substrates including Concrete, Block, Brick, Wood, Painted Metal, Tile (glazed & unglazed) etc...

**IMMUNACOAT®**



Creator: Green Earth Solutions LLC

Manufacturer: Snyder Manufacturing

1541 W Cowles St.

Long Beach, CA 90813

Distributor: Green Earth Solutions LLC

Contact Customer Service: (800) – 242 – 7615

WEB: [www.provectacoatings.com](http://www.provectacoatings.com)



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