

Sections

09 09 96 00
High Performance Coatings

ARMOR-TEK 830

POLYSILOXANE TOPCOAT

Description

Armor-Tek 830 is a high performance, two-component, high solids, low VOC polysiloxane floor coating that provides superior resistance against abrasion, chemicals, corrosion, UV exposure and weathering.

Best used as a topcoat in metallic floor systems.

Solids

83%

Appearance/Color

Available in clear

Finish

High-Gloss
Satin

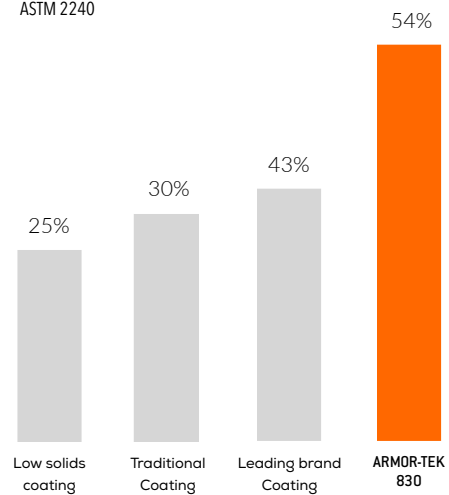
Coverage

300-500ft²/gallon.

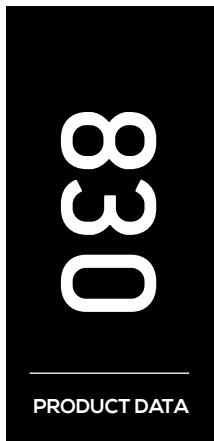
ABRASION RESISTANCE

Meets the requirements of:

ASTM D4060, ASTM D4541,
ASTM 2240



Percentage Improvement vs. Control



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Technical Data Sheet

TECHNOLOGY // ADVANTAGES

ADVANTAGES

- **Composition** - 83% solids nanotechnology driven high-performance topcoat
- **Excellent abrasion resistance** and chemical resistance
- **Excellent gloss and UV stability**
- **Easy to Apply** on warehouse floors and auto repair shops
- **Best used as a topcoat** with metallic additives
- **Excellent acid** and corrosion resistance

*For interior use only

TYPICAL PROPERTIES

Appearance - Clear

Packaging - 1 gallon Kit

VOC's - <100 g/L

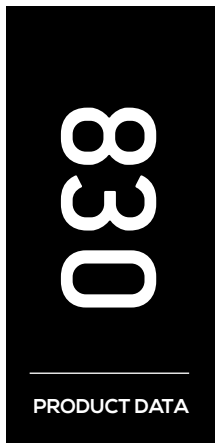
Recommended Thickness - 2-5mils WFT

APPLICATIONS

- Interior
- Horizontal
- Garages
- Shop Floors
- Warehouses

SUBSTRATES

- Concrete
-



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Technical Data Sheet

TESTING DATA

TECHNICAL SPECS

Chemistry: Polysiloxane

Color: Clear

Finish: High-Gloss & Satin

Carrier: 83% Solids

Packaging: 1 Gallon Kit , 2 Component Kit

Coverage: 300-500 sq. ft. per gallon at 3-5 mils wet film thickness.

Application Method: Brush, roller or squeegee

Application Temperature: 45°-95°F with relative humidity below 75% and at least 5° over the current dew point.

Number of Coats: 1

VOC Content: <100 g/L

Film Thickness: 2 - 5 mils

Adhesion: >400 psi

Abrasion Resistance: 40 mg loss

Hardness Shore D: 70

CURE TIMES (75°F) 50% RH

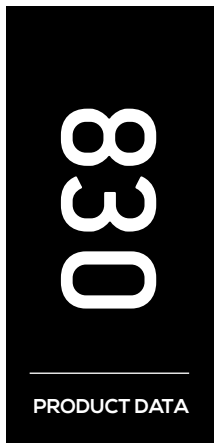
Pot Life - 20-30 minutes

Tack Free (dry to touch): 3-5 hours

Light Foot Traffic: 12-16 hours

Full Cure (Heavy Traffic): 3-5 days

Test results are averages obtained in a controlled environment, material and curing conditions of 75°F and 50% relative humidity. Reasonable variations should be expected .



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APPLICATION

SURFACE PREP

Surface must be clean, dry, and completely free of loose particles, grease, oil, or any substance that would interfere with proper bond. Perform vapor testing to verify that the vapor pressure is below 3lb/24hr/1000 sq. ft. If moisture vapor transmission exceeds 3lbs, first use Vapor-Tek 440. When applying directly to concrete, we recommend either mechanical scarification or acid etching until a suitable profile is achieved (CSP Level 1 or 2). If acid is used to clean the concrete, neutralize the surface completely and rinse it with water prior to application. Concrete must be dry for at least 24-48 hours prior to application.

When applying on a newly coated epoxy, be sure to apply within the epoxy re-coat window to ensure proper adhesion to the epoxy coating. If applying top coat outside of the epoxy's recoat window the surface must be abraded by using an 80/100 grit sandpaper, diamond or Diamabrush. Be sure to sand the previous coating until no gloss is visible. Before applying the coating, be sure the sanded surface is clean, dry and free of contaminants such as dirt, dust, or other foreign materials.

APPLICATION EQUIPMENT

Best applied using a 3/8" nap shed-resistant roller. If using a squeegee, we recommend a flat/straight flexible rubber solvent resistant blade. A synthetic bristle brush may be appropriate for cutting in or small-scale applications. Mixing containers are also recommended.

MIXING

Combine two (2) Part A to one (1) Part B, by volume. Kits come prepackaged and should be used in their entirety and should not be broken down. Do not combine multiple kits when mixing. Once the material is opened, it cannot be re-sealed for later use.

Mix Part A in original container by hand using stir stick for one (1) minute. DO NOT MIX AT HIGH SPEED. DO NOT DRILL MIX.

Add Part B into Part A and mix by hand using stir stick for three (3) minutes or until uniform. DO NOT MIX AT HIGH SPEED. DO NOT DRILL MIX. No induction time is required. Material is ready to use once combined. Do not combine more material than can be applied within a 10 - 15 minutes time frame.

APPLICATION

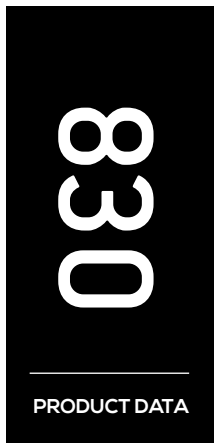
Using a brush, cut in any edges. Working directly out of 5 gallon mixing pail, dip and apply to the floor using a 3/8" nap roller. Apply in a smooth, even, uniform manner. To help prevent visual differences in application be sure to minimize the time between tie-ins. Use control joints or natural breaks as breaking points between mixes. Continue to blend overlaps and roller marks. Do not back roll coating if it begins to tack up. This could trap air into film or cause roller marks. Use a new mixing pail for each kit.

APPLICATION NOTES

- To help prevent visual differences between application be sure to minimize the time between tie-ins.
- Use control joints or natural breaks as breaking points between mixes.
- Apply at 300 to 500 sq ft. per gal kit for best results.
- Use a new mixing pail for each kit.

CLEAN UP

Clean brushes, rollers, tools and equipment with lacquer thinner or xylene, follow solvent manufactures safety instructions.



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APPLICATION

PRECAUTIONS/SAFETY

Refer to the SDS sheet before use. Safety precautions must be strictly followed during storage, handling, and use. Personal Protective Equipment (PPE) should be worn at all times. PPE will include (but is not limited to): Safety glasses with side shields and high-quality nitrile gloves.

MAINTENANCE

To maintain the appearance, it is imperative to have a routine maintenance program. Dirt and debris can quickly scratch and dull the surface. Sweep and mop/scrub floors regularly using soft bristles/pads and a mild cleaner. Some cleaning products and equipment or improper use of these can damage a surface. Remove spills quickly to minimize damage and/or stains. For systems that support parked vehicles or other heavy items on rubber wheels, place a small piece of nonporous material, such as sheet metal or plexiglass between the tires and floor to prevent tire marks. Reapplication may be necessary in heavy traffic areas.

SHELF LIFE

Shelf life is 12 months when stored in factory-sealed containers indoors at 55°F to 95°F (13°C to 35°C) for Base and Activator. Keep containers tightly sealed. Do not freeze.

CONTACT

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For professional use only.

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