

EPOXY PRIMER

VOC-Free Epoxy Primer

Description

The EPOXY PRIMER is a two-component VOC-free and 100% solids base coat floor epoxy coating system. It offers a combination of long pot life/working time and fast curing. The EPOXY PRIMER formulation is based on a high-performance cycloaliphatic amine technology and has a very low viscosity and excellent early blush resistance.

Uses

The EPOXY PRIMER is suitable for various applications:

- + Industrial uses
- + Manufacturing facilities and warehouses
- + Commercial centers
- + Office buildings
- + Retail stores
- + Parking garages
- + Food/beverage processing and preparation plants
- + Public facilities including hospitals and schools
- + Pharmaceutical companies
- + Other commercial uses

Advantages

- + Environment friendly with no VOC, 100% solids
- + Minimal odor
- + Potential for LEED eligibility
- + Excellent penetration and adhesion to concrete
- + Very low viscosity facilitating application
- + Flexibility for optimal impact absorption and better protection when slab movements occur
- + High resistance to amine blush and contamination (fish eyes)
- + Long working time
- + Fast curing

Application Data

Mix Ratio	2A:1B	
Packaging	15 US gallon kits (3 x 18.9L)	
Color	Clear	
Solids Coverage / US GAL	Mils	Sq. Ft.
	4	400
	5	320
	6	267
Shelf Life	One year, in original unopened factory pails under normal storage conditions	
Application temp.	Min 16°C, Max 30°C	
Cure Time		
Working time	45 min	22°C and 30% rel. hum
Tack Free	4 hours	22°C and 30% rel. hum
Dry Through	8 hours	22°C and 30% rel. hum
Recoat	4-24 hours	22°C and 30% rel. hum

Technical Properties

Hardness	ASTM D2240	80	Shore D
Pull Off Test		≈3	Mpa
Solids Content		100	%
Viscosity (A&B) ⁽¹⁾		750 +/- 100	cps
COV Content		0	g/l

Surface Preparation

Concrete should be clean, dry and free of grease, oil, paint, curing agents or any contaminants that may inhibit proper adhesion. Concrete should be cured at least 28 days before applying the coating system.

Proper testing procedures should be practiced with regards to soil acidity and moisture vapor transmission. Take a pH reading to ensure concrete is neutral (a reading between 5 and 9 is acceptable). Use a calcium chloride test to measure moisture vapor transmission. Readings of 3.5 lbs/1000 sq. ft. during a 24-hour period or less are acceptable for applying coatings. Higher results should receive a moisture mitigation system.

Surface must be prepared mechanically in line with CSP-3 or more. Ensure the surface is free of contaminants, and the pores are open to allow the product to penetrate.

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Mixing

Before final mixing, pre-mix part A individually at low speed. Then, mix two parts of A and one part of B together at low speed in a separate container. The mixing container must be clean and free of any outside particle. Mix thoroughly for a minimum of three minutes, until a completely homogeneous mixture is obtained. Use a low speed drill (300-450 rpm) to minimize the entrapping of air. It is recommended to activate the mixer in the reverse mode after the first minute in order for the liquid to mix from the bottom of the mixing can to the top. Make sure to scrap sides and bottom of mixing container so no unmixed material remains. Mix only the necessary quantity to be used according to the specified pot life / working time.

Application

It is recommended to use only the quantity required to seal the concrete prior applying an epoxy base and top coat (RTE-120 or RTE – 120 UV). Apply with a squeegee in thin coat without back rolling to seal properly the surface. Coverage rates can vary significantly depending on the concrete's porosity.

Apply only when air and floor temperature is between 16-30°C and the relative humidity less than 85%. Once the surface has been properly prepared, spread the product using a squeegee. Roll back of the product is not necessary but can be done to apply the product more uniformly. A thickness of 4-6 mils is recommended for the EPOXY PRIMER. Proper testing should be conducted prior application.

Recoat

ResinTek's top coat epoxies will bind to the EPOXY PRIMER without sanding if installed within 24 hours. Beyond 24 hours, the floor surface should be sanded/abraded until a uniform dullness is achieved. There should be no gloss on the prior coating after vacuuming and before applying the next coat.

Clean Up

Excess liquid A and B material should be mixed together and allowed to cure. Cured product may be disposed of without restriction. Uncured material should be stored in a suitable and sealed container and may be disposed in accordance with provincial and federal regulations.

Limitations

Requires a dry substrate. This product should not be applied to concrete substrates that show high levels of moisture/humidity. Although this product may be applied in a wide range of thickness, limitations may apply when taking into consideration curing time. Everything else being equal, thicker is the film, quicker is the curing time. Moisture content of the substrate must be below 4% before applying the product. Drying time will be faster in a hot environment. Conversely, the drying time will be longer in a cold dry environment and the appearance of the surface may be affected. Keeping the product stored at room temperature will make the application easier and dry times shorter. Not suited for exterior applications.

ResinTek stands behind the quality of its products. However, ResinTek cannot guarantee final results since ResinTek has no control over surface preparation, operating conditions and application procedures. Clients are solely responsible to test ResinTek's products to determine if they perform as expected.

In order to meet our strict requirements, we are continuously testing our coatings and on occasion, formulations may be modified to improve certain properties within each coating. Information and data included in this reference document may not be up to date as of the date of reference.

Contact ResinTek for further information regarding the limitations of this product.

Available Colors

Clear

Refer to the most recent Material Safety Data Sheet prior using this product

ResinTek

1817 S Horne. #13 Mesa, AZ. 85204
877-408-0108
www.ResinTekSystems.com