COATINGS SOLUTIONS
HIGH PERFORMANCE

Technical Data Sheet

3150 County Line Rd, STE 4
Lakeland, FL 33811

www.coatingsoln.com – Office: 863-450-2192 – E-mail: info@coatingsoln.com

Moisture Blok Epoxy

Description:

Moisture Mitigating 100% Epoxy Primer. This primer is a low viscosity class 1 Moisture Vapor Barrier with a low permeance of less than .07 perms. System consists of Two parts epoxy-silane resin to One-part epoxy hardener. This Silane modification & crosslink density allows it to penetrate deeply into the concrete reducing vapor perm from 24 to less than 3lbs/1000 sq. ft in 24hrs. Recommend testing via ASTM 1869 calcium chloride method to determine moisture. **Available in Regular, Slow & Fast Cure**

Typical Applications:

Retail and Commercial Flooring

Garage and Showroom Floors

High-Traffic Interior Applications

Approved Topcoats:

Solvent or Water-Based Urethane and Epoxy. Also approved for wood and laminate countertops

Surface Prep & Priming:

Grind concrete floors to CSP-3, vacuum dust, wipe with Denatured alcohol.

Mixing:

2 parts A to 1 part by volume. Add Part B to Part A Mix for 2 minutes with mechanical mixing.

Application:

Pour mixed material on the floor in 12" ribbons. While wearing spiked shoes squeegee and back roll with a lint-free 3/8" epoxy roller. Apply Moisture Mitigating Epoxy at spread rate of 150 sq. ft. per gallon to obtain maximum vapor barrier properties

Coverage:

1 gallon will cover approximately

Primer on Porous Concrete 150 sq.ft./gal.

Pigmented receiver coat for vinyl chips 160-180 sq.ft./gal

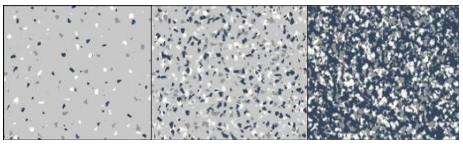
Primer for Metallic Floors 150-180 sq.ft./gal

Best if applied at temperatures between
55-90 degrees Fahrenheit.

Broadcasting Vinyl Chips:

Apply pigmented epoxy basecoat at 180 sq.ft. per gallon

Calculate Vinyl flake on 250 sq.ft.



Light 1lb. Heavy 4lbs. Full 25lbs.

After epoxy is spread and back rolled divide chips in equal portions then throw vinyl chips upwards let them drop in the wet epoxy. Let cure 6-8 hrs Regular Cure, 12 hrs Slow Cure, 2-3 hrs Fast Cure. Then scrap and vacuum up loose flakes. After scrapping and vacuuming several times. Apply coat of Premium Polyaspartic Clear Finish coat using a magic trowel pull seal coat across the flake at 180 sq. ft per gallon.

Dry time & Recoat:

Regular Cure 6-8 hrs Vehicular Traffic 24 hrs
Slow Cure 12 hrs Vehicular Traffic 48 hrs
Fast Cure 2-3 hrs Vehicular Traffic 12 hrs

Lightly sand the surface and wipe down with denatured alcohol or acetone before applying additional coats or finish coats.

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Exterior Applications:

Recommend a pigmented urethane topcoat as epoxy will amber.

Physical Properties:

Viscosity Mixed	Brookfield	750-1000 cps
Shore-D Hardness	ASTM D2240	85-90
Compressive Strength	ASTM D695	11,500 psi
Adhesion to Concrete	ASTMD 4541	600psi
Tensile	ASTM D638	3450 psi
Flexural Modulus	ASTM D790	3700 psi
Koenig Hardness	ASTM D4366	125
Tabor Abrasion	ASTM D4060	28 mgs lost
Coefficient of Friction	ASTM 2047	< .60
VOC	< less than 50 grams/liter	

Chemical Resistance ASTM D-1308

Acetic Acid	Y
Acetone	Y
Ammonia 30%	Y
Anti-Freeze	Y
Animal Urine	Y
Brake Fluid	Y
Chlorine	Y
Chromic Acid 10%	Y
Gasoline	Y
Hydraulic Fluid	N
Hydrochloric Acid 35%	N
Hydrofluoric Acid	N
Hydrogen Peroxide	Stain
Methyl Ethyl Ketone	N
Methanol	N
Methyl Chloride	N
Mineral Spirits	Y
Motor Oil	Y
Mustard	Y
Nitric Acid	N
Orange Juice	Y
Phosphoric Acid	Y
Silver Nitrate	Y
Skydrol	Y
Sodium Hydroxide (Caustic)	Y
Sodium Hypochlorite (Bleach)	Y
Sulfuric Acid 10% (Battery Acid)	Y
Windshield Wiper Fluid	Y

Available Kit Sizes:

3 gallon and 15 gal kits

Handling, Storage, Disposal & Clean-up:

May irritate eyes wear gloves

Store in clean dry area do not freeze

Dispose in accordance with all state local and federal laws

Clean-up tools and equipment with xylene

Regulatory

Less than 50 grams/liter

Meets all VOC categories in US and Canada

Contributes to Leed

Warranty:

Material only if proven defective, no labor

Floor was primed with black Moisture Mitigating Epoxy. Then 55 sq. ft per gallon of Tru-Flow 3D Metallic Epoxy was applied using pearl & cappuccino metallic pigments. The black base coat gave this floor a third color dimension since metallic pigments are translucent.