

PRODUCT DESCRIPTION:

4001 is a two component Waterborne Epoxy Floor Primer/Sealer designed to improve the adhesion of coating systems to concrete and previously sealed surfaces or provide a breathable “Wet Look” seal over new, old or decoratively stained concrete floor surfaces and overlays. Due to its unique ability to ‘breathe”, 4001 is suitable for use over green concrete and substrates with high moisture vapor emissions. Use 4001 as your general-purpose sealer over bare concrete, feather blasted concrete or acid/acrylic stained floors. 4001 can be used as a primer coat for subsequent coats that are applied over it during the cure.

COMPOSITION:

Specialty propriety blend of epoxy, wetting agents, adhesion promoters and other additives.

ADVANTAGES:

- Bonds to damp concrete surfaces
- Cures under cool or wet conditions
- 26% Solids, 22g/L VOC
- Low odor
- Ideal as “Wet Look” Sealer over concrete
- Makes a great primer when applying subsequent materials that have lower adhesion properties

LIMITATIONS:

- Will not bridge cracking
- Yellows under U.V. lighting
- Not for exterior use

COLORS:

CLEAR

COVERAGE RATES:

OVER CONCRETE SUBSTRATE

1 ST COAT	250 FT ² / GAL
2 ND COAT	300 FT ² / GAL

TECHNICAL PROPERTIES:

VOLUMETRIC MIX RATIO	1A:1B
	GLOSS
VOLUMETRIC SOLIDS	24%
VOC	22g/L
POTLIFE (1 GAL MASS)	120 Mins @ 75°F

WORKING TIME	60 Mins @ 75°F	
DRY TO TOUCH	1-2 Hours @ 75°F	
RECOAT WINDOW	1-2 Hours	
FULL CURE	5-7 Days	
PENCIL HARDNESS	ASTM D3363	H-2H
ADHESION	ACI 503R	350 PSI
FLAMMABILITY	SELF-EXTINGUISHING	

CHEMICAL RESISTANCE:

ACETONE	NO EFFECT
XYLENE	NO EFFECT
10% HCL	DISCOLORED
AMMONIA	NO EFFECT
DEGREASER	NO EFFECT
LIQUID PLUMMER	NO EFFECT
VINEGAR	FAINT SPOTTING
CLOROX	NO EFFECT
WINDEX	NO EFFECT
MOTOR OIL	NO EFFECT
GASOLINE	NO EFFECT
SKYDROL	NO EFFECT
HOT TIRE	NO EFFECT

PACKAGING:

2 Gallon Kit	10 Gallon Kit
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STORAGE:

Store materials indoors between 50°F & 75°F

SHELF LIFE:

One year from date of manufacture




APPLICATION EQUIPMENT:

Protective Clothing	18" Roller Frame SKU - 7012
Jiffy Mixing Paddle SKU - 7050	18"x3/8" Nap Roller Cover SKU - 7006-1
Slow Speed Drill	Flat Squeegee SKU - 7090-K
Spike Shoes SKU - 7045-D	Magic Trowel SKU - 7000

SUBSTRATE REQUIREMENTS:




CONCRETE:	Concrete must be structurally sound and free of all dirt, debris, and contaminants
PROFILE:	Concrete shall be porous and have a Concrete Surface Profile (CSP) level between 2 & 4

MOISTURE:	Substrate shall have Moisture Vapor Emission Rate (MVER) of 3lbs / 1000 ft ² / 24 hr. or less
TEMPERATURE:	Ambient and substrate temps must be above 35°F and Relative Humidity should not exceed 65%

SURFACE PREPARATION:	
	Perform Moisture Test using Calcium Chloride concrete moisture test kit per ASTM F1869 1 test/1000 ft ² is recommended.
	Patch all depressions, divots and cracks using 4900 5-minute Crack Weld, 4930 Polyurea Crack & Spall Filler, or Divot Patch to reduce the ability to see the defect through the epoxy coating.
	Concrete should be mechanically profiled and prepared to produce a Concrete Surface Profile (CSP) level between #2 & #4 according to the (ICRI) Guideline No. 03732.

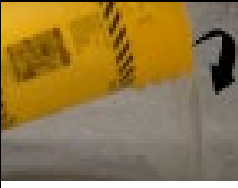

PLEASE REVIEW SAFETY DATA SHEETS (SDS) & CHEMICAL SAFETY GUIDE FOR SAFETY AND PRECAUTIONS

ENVIRONMENTAL FACTORS:
Working times are affected by environmental conditions. Large masses of mixed and/or heated material will have shorter pot-life. Keep material core temps between 50-75°F. In elevated temps consider icing buckets to reduce product temps and cold climates use pail warmers

4001 MIXING STEPS:	
	Pour pre-mixed A-Component and B-Component into a clean 5-gallon bucket (If mixing bulk kit be sure to follow specified 1A:1B ratio)
	Mix A & B Components using drill at slow speed for 2 minutes
	Transfer mix to new mixing vessel
	Continue to mix for an additional 30 seconds to ensure components are thoroughly blended.

4001 APPLICATION STEPS:		
COVERAGE RATES OVER CONCRETE SUBSTRATE:		
1 ST COAT	250-275 FT ² / GAL @ 5.8-6.4 MILS WET FILM	
2 ND COAT	300-350 FT ² / GAL @ 4.6-5.3 MILS WET FILM	
OVER FLAKE SYSTEM		
1/4" FLAKE	1/8" FLAKE	1/16" FLAKE
250 FT ² / GAL	200 FT ² / GAL	150 FT ² / GAL

APPROXIMATE WORKING TIMES: 60 MINS @ 75°F

	Pour a band of mixed material out onto the floor roughly 6-8" wide. Once mixed, the product goes down milky white. It has a thin consistency and is not meant to be applied thick.
	Begin spreading with flat squeegee or Magic Trowel. Work material evenly to a film thickness of approx.. 3-4 Mils. Always keeping a wet edge.
	Perform a Single Backroll on the surface by walking into the wet material wearing spike shoes and roll perpendicular to your first direction of application. Make sure to avoid ponding/puddles
	Allow system to dry typically standard 8-10 hours at 75°F

CLEAN-UP:

Immediately clean up splatter marks and tools with MEK or Acetone. Clean hands and exposed skin with mild soap and water, and/or citrus based hand cleaner.

DISCLAIMER:

All information provided in this technical data sheet is based on laboratory data. It is the responsibility of the customer to test the material for their application and conditions prior to using the product.

TEMPERATURE:

The product was tested at ambient temperature (75°F -77°F). Results WILL vary when product is used at temperatures different from testing temperature. The pot life, gel time, and cure time is generally longer for colder temperature applications, and shorter for higher temperature applications. Physical properties are also impacted and dependent upon temperature.

SLIP RESISTANCE:

OSHA and the American Disabilities Act (ADA) have now set enforceable standards for slip-resistance on pedestrian surfaces. The current coefficient of friction required by ADA is .6 on level surfaces and .8 on ramps. Versatile High-Performance Coatings recommend the use of angular slip resistant aggregate in all coatings or flooring systems that may be exposed to wet, oily, or greasy conditions. It is the contractor and end users' responsibility to provide a flooring system that meets current safety standards. Versatile High-Performance Coatings or its sales agents will not be responsible for injury incurred in a slip and fall accident

WARRANTY:

Versatile High-Performance Coatings guarantees that this product is free from manufacturing defects and complies with our published specifications. If the buyer proves that the goods received do not conform to these specifications or were defectively manufactured, the buyer's remedies shall be limited to either the return of the goods and repayment of the purchase price or replacement of the defective material at the option of the seller. Versatile High-Performance Coatings (herein referred to as "seller") makes no warranty, expressed or implied, regarding the use of its products. Since use of this product is beyond the seller's control, the buyer assumes all risk of use. Seller's obligation shall be to replace material if found defective. Seller shall not be liable for any damage, injury, loss, direct or consequential, resulting from the use of its products. End user must determine if substrate is suitable for coating application before installing.

TECHNICAL SERVICES:

Technical services can be obtained by contacting Versatile High-Performance Coatings directly at 214-807-6878.