

4100 Moisture Blocking Epoxy Primer Technical Data Sheet

PRODUCT DESCRIPTION

4100 Moisture Blocking Primer/Sealer is a 100% solids epoxy clear sealer that is designed to wick deep into the concrete, providing incredible adhesion to the concrete floor. It is designed for use over concrete to mitigate moisture vapor emissions and increase adhesion of subsequently applied systems to concrete. 4100 develops strong bond strength to concrete floor surfaces, even under cool, wet or damp conditions. 4100 is typically used as a primer for Versatile's Solid X® commercial and industrial flooring systems including High Build Epoxy, Epoxy Slurry, Epoxy Mortar, Urethane Cement and other two component floor coating systems. 4100 can prevent failure of moisture vapor emissions up to 15lbs over a 24-hours period. It may also be used as a vapor reduction and odor barrier beneath carpet, VCT, and ceramic tile. 4100 can also be used to produce slurries and mortars for patching and repairing substrates or as a standalone sealer over concrete floor surfaces.

COMPOSITION

Special proprietary blend of 100% solids epoxy, wetting agents, adhesion promoters and additives.

ADVANTAGES

- Wicks deep into concrete floors
- Use over new or old concrete
- Bonds to damp concrete floor surfaces
- Locks down moisture vapor emissions and odors
- Cures under cool or wet conditions
- Can be accelerated
- 100% Solids, 1g/L VOC
- Low odor
- May be used as a "Wet Look" Sealer
- Clear glossy finish

LIMITATIONS

- Will not bridge cracking
- Yellows under U.V. lighting
- Requires minimum temperature of 45F and 5F over dew point during installation and initial cure cycle.

AREAS OF USE

- Garage Floors
- Industrial Floors
- Any Concrete Floor
- Most Previously Coated Floors – consult with manufacturer

COLORS AND FINISH

- Clear
- Smooth High Gloss Film

RECOMMENDED COVERAGE RATES

<i>Over Surface</i>	<i>First Coat</i>	<i>Second Coat</i>
Concrete	200 SF/gal	250 SF/gal

PACKAGING

- 1.5-Gallons Unitized Kit
- Available in 15-Gallons Bulk Kit

AVAILABILITY AND COST

VBP Products are supplied direct and all prices, install guides, etc. are viewable online at www.versatile.net.

INSTALLATION

Refer to manufacturers detailed System Installation Guide.

4100 Moisture Blocking Epoxy Primer

Technical Data Sheet

TECHNICAL PROPERTIES

Volumetric Mix Ratio (A:B)	2:1
% Solids	100 %
VOC	1g/L
Pot Life (75°F, 1 gal mass)	45 mins
Cure Time	
Dry to Touch	6-8 hours
Recoat Window	8- 24 hours
Full Cure	5-7 days
Pencil Hardness	2H-3H
(ASTM D3363)	
Tensile Strength	8600 p.s.i
(ASTM D638)	
Flexural Strength	12,200 p.s.i
(ASTM D790)	
Compressive Strength	10,800 p.s.i
(ASTM D695)	
Adhesion	350 p.s.i
(ACI 503R)	(100% concrete failure)
Water Vapor Transmission	0.5395 perms
(ASTM E96 Procedure B)	0.2272 grain/hr-ft ²
Flammability	Self-extinguishing
	Over concrete

Chemical Resistance

Acetone	No Effect
Xylene	No Effect
10% HCl	No Effect
Ammonia	No Effect
Skydrol	No Effect
Vinegar	No Effect
Degreaser	No Effect
Liquid Plumr	No Effect
Clorox	No Effect
Windex	No Effect
Motor Oil	No Effect
Gasoline	No Effect
Hot Tires	No Effect

TEMPERATURE

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.

MAINTENANCE

Maintain the 4100 to a minimum thickness of 4 dry mils. If the 4100 is damaged, it can be repaired by sanding the surface, cleaning and then recoating the area with same materials.

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.

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 Building Products Inc. recommends 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 Building Products Inc. or its sales agents will not be responsible for injury incurred in a slip and fall accident.



4100 Moisture Blocking Epoxy Primer Technical Data Sheet

WARRANTY

Versatile Building Products Inc guarantees that this product is free from manufacturing defects and complies with our published specifications. In the event that 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 Building Products Inc (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 VBP direct at 714-829-2600.