

Technical Data Sheet

HydroBlok Primer 1100
400 Square Foot Kit

GUARANTEED TO BLOCK MOISTURE & VAPORS IN CONCRETE SLABS

Description:

HydroBlok Primer 1100 is an impermeable two-component modified epoxy coating with zero VOC to block the moisture vapor emissions from new and existing concrete slabs. Its unsurpassed adhesion to concrete exceeding 1,100 psi tenaciously grabs onto the concrete slab to block the moisture and vapors beneath the concrete slab. For extra protection, we recommend applying **HydroBlok Polyaspartic** topcoat.

Perm Rating:

Class I (50 lb moisture vapor @ 99% RH)

Extraordinary Properties:

- Adhesion to concrete exceeding 1,100 psi
- Guaranteed to stick to concrete slab (including slippery concretes such as sealed and densified concrete) and NOT delaminate
- Resistant to the harshest chemicals including paint strippers, battery acid, and other acids

Applications:

- Any concrete slab that "leaks" moisture and vapors
- Any concrete slab to prevent moisture and vapor leaks in the future
- Or new concrete slab to protect it from future moisture and vapor problems

Unique Properties:

- Zero VOC
- Minimal preparation: sweep and pick up debris and wipe surface with acetone
- Adhesion to concrete slab so strong that it exceeds 1,100 psi
- Fast drying: tack-free and ready for topcoat in 2 hours by using accelerator
- Work completed overnight in less than 8 hours
- Simple roller application technique allows installation to be performed by experts or novices
- Guaranteed ZERO FAILURES
- Best solution and the LOWEST COST solution

Application Notes:

- Minimum application temperature generally is 41°F (5°C). This is for both ambient and surface temperatures. Applications below 41°F are achievable. Consult manufacturer for instructions.
- Tackfree dry time is 2 hours with accelerator.
- Subsequent coats (DecoFlakeColor or Topcoat) can be applied in 1.5 hours.
- Recoat time is 48 hours. After 48 hours, you must perform one of the following procedures: 1) Scratch HydroBlok 1100 lightly with 120 grit sandpaper. 2) Light acetone wash and wipe. Acetone wash is recommended because it eliminates dust and "opens" HydroBlok 1100 to provide maximum adhesion.
- HydroBlok 1100's primary purpose is superior adhesion to the concrete surface. Proper application will result in adhesion from 1,100 psi up to 1,500 psi.
- Do not dilute.

Application Instructions:

1. Clean. Dry sweep and remove loose debris and standing water. Dry as needed until no debris or water remains. Use of leaf blower or floor blower fan is recommended. Follow with acetone wipe. Splash acetone on the floor, and use a dust mop or swiffer-style floor mop with a cloth head to wipe the floor. This acetone wipe is required for guaranteed adhesion. Note: Acetone wipe will mitigate oils and debris in the pores of the floor.
2. Area Coverage. You will get area coverage of 500 square feet. If you do not get this amount of area coverage, you are not applying HydroBlok 1100 properly.
3. Accelerator. Add when faster dry time is needed. Add 1.5% accelerator to Part B. Mix and allow to stand for 5 minutes.
4. Mixing. If color is desired, add color to Part B. Mix Part A with Part B on a 1:1 basis. Mix using a machine mixer with a paint mixing blade. Mix thoroughly for at least 3 minutes at low RPM until both parts are blended.
5. Recommendation for mixing bucket. When using 9" rollers, get a 5-gallon caddy or a storage bin that is wide enough to accept rollers. Place the container on a furniture dolly for mobility.
6. Induction Period. After mixing, place a lid on the bucket. Let the mixture sit for at least 10 minutes. This period is called induction time. Note: colder temperatures require a longer induction time.
7. Application. CAUTION - Do not pour out the mixture onto the floor. Do not use a squeegee. Apply HydroBlok 1100 by dipping the roller into the bucket and applying the primer onto the floor with the roller. A short nap roller is recommended.
8. Film Thickness. Use the roller to apply HydroBlok 1100 at a maximum film thickness of 4 to 6 mils. The desired film thickness is 3 mils. HydroBlok 1100 will have a milky, hazy and translucent appearance. If you find that HydroBlok 1100 is not partially transparent, the HydroBlok 1100 is too thick.
9. Dry Time. Allow appropriate dry time for the next coat.
10. Clean up with acetone or lacquer thinner

Physical Properties:

PROPERTY	TEST METHOD	RESULT	
		LATICRETE	AYP MOISTURE
ADHESION	ASTM D7234	>410 psi	>1,100 psi
VAPOR PERMEANCE	ASTM E96	0.052 gr/h/ft ² /in	0.05 gr/h/ft ² /in
TENSILE STRENGTH	ASTM C1583	>410 psi	>9,000 psi
COMPRESSION STRENGTH	ASTM D695	-	>18,000 psi
HARDNESS	ASTM D2240	-	Shore D90

Working Properties:

PROPERTY	RESULT	
	LATICRETE	AYP MOISTURE
MIX RATIO	1:2	1:1
WORKING TIME (POT LIFE)	20 - 30 minutes	50 - 60 minutes
RE-COAT TIME (MINIMUM)	12 hours	2 hours
RE-COAT TIME (MAXIMUM)	72 hours	48 hours
FULL CURE	7 days	3 days

Packaging:

Packaged in a 3 gallon plastic pail. Contents include the following: 1 gallon wide mouth plastic container of Part A and 1 gallon of Part B, 4 oz plastic container of accelerator.

Shelf Life:

2 years unopened under good storage conditions

Disclaimer:

This information is presented to the best of our knowledge at the date of publication. It is offered without warranty, both express and implied, regarding the accuracy or the results to be obtained from the use of such information and is intended for use by persons who are experienced and knowledgeable.