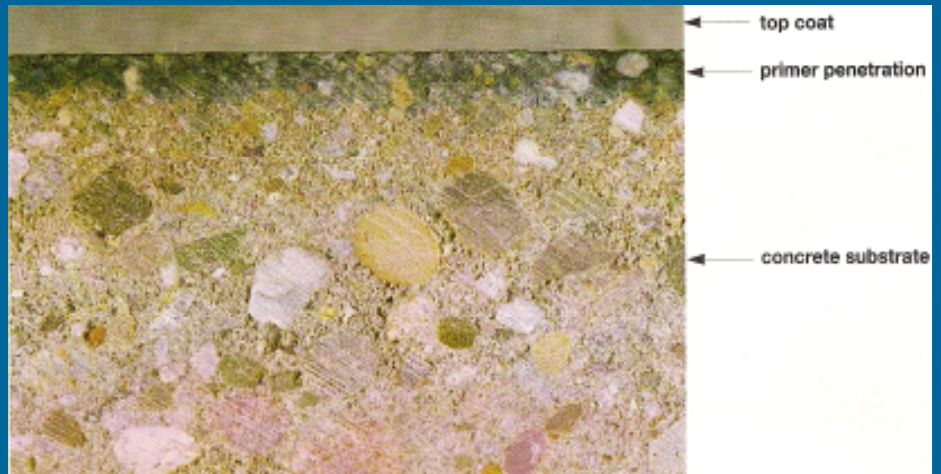


BDC VAPOR SEAL PRIMER

B.D. Classic Enterprises introduces a new epoxy primer that is revolutionizing the industrial coatings industry. One of the most common problems in applying an epoxy floor system occurs when substrates are subject to condensing humidity, are damp, or are even completely saturated with water. The new BDC Vapor Seal Primer combats these problems by being moisture accepting enough to even cure underwater.

According to ASTM E96—Moisture Vapor Transmission: Vapor Reduction testing, the BDC Vapor Seal Primer will reduce the hydrostatic pressure of a floor with moisture vapor transmissions (WVT) of 11.63-lbs / 24 hours - 1000ft² to an incredible .84-lbs / 24 hours - 1000ft² . (Test done using the Wet Cup Method)

Photo displays the Vapor Seal Primer's penetration into a wet substrate. Primer is then followed with the BDC 3300 top coat for extra protection.



The product's low viscosity and slow cure time allow it to penetrate deeper into the concrete than a normal primer. This extra penetration provides a higher degree of adhesion to the substrate. ASTM D4541 (Elcometer Pull-Off Adhesion) testing with Vapor Seal applied onto a concrete substrata showed that the concrete cohesively

broke before Vapor Seal's adhesion did. The Pull-Off Adhesion was at an average of 800 psi before the actual concrete broke off.

With BDC Vapor Seal it is even possible to apply a coating on one-week old concrete that is free of any cement laitance. This means a customer can be on their floor up to three weeks quicker than with a normal epoxy floor system*.



*a) Testing apparatus for pull off strength
c) Pull off strength results over wet concrete with BDC Vapor Seal*



* 28days are generally required for concrete to be dry enough for coatings application

In general, BD Classic Enterprises recommends BDC Vapor Seal to be used between 10°C to 32°C (50°F to 90°F). The surface should be diamond grinded, shot-blasted, or acid-washed before product is applied. If acid washing, make sure floor is completely neutralized before product application. BDC Vapor Seal can be applied by a roller or squeegee.

The typical physical properties of the BDC Vapor Seal System are shown below in TABLE I.

<i>Table 1</i>	<i>Typical Properties of the BDC Vapor Seal System</i>			
Hardener	BDC Vapor Seal			
Mix Ratio, By Volume	2 parts resin / 1 part hardener			
Test Temperature / Relative Humidity	41°F / 80%	59°F / 60%	73°F / 50%	95°F / 35%
Mixed Viscosity, cP	<4000	2,400	1,150	500
Gel Time (100g mass), minutes	391	154	47	34
Tack-free Time, hours	14	6.5	4	1
Dry Through Time, hours	21	8.5	6	2
Visual Appearance	Semi-gloss	Semi-gloss	Glossy	Glossy
<i>Mechanical Properties</i>				
Pencil Hardness	2H			
Persoz Hardness, seconds	167			
Cross-cut Adhesion	5A			
Impact Resistance (D/R), in lb.	42 / 0			
Elcometer Pull-off Adhesion 73°F / 50%	800 psi (dry concrete)			