

DL Labs

June 25, 2004

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OBJECTIVE

To evaluate two water borne coatings and one solvent borne coating for various properties.

PRODUCTS TESTED

The following materials were submitted by PolySat Chemicals (dba Vexcon Chemicals) for use in this study:

Solvent Borne Coating

Moisture Bloc FT Step I, Low Odor, Lot No. 19A19

Moisture Bloc FT Step 2, Low Odor, Lot No. 23A19

Water Borne Coatings

Moisture Bloc Emulsion One Step, 32A19

Moisture Bloc Reactive Emulsion One Step, 32D19

TEST PROCEDURES

The following test procedures were employed in this study:

<u>Test</u>	<u>Method</u>
Pull-Off Adhesion to Concrete	ASTM D 4541
Scrape Adhesion on Concrete - Using a loop stylus	ASTM D 2197
Impact Resistance, direct	ASTM D 2794
Flexibility, Rod	ASTM D 522

The 32D19 water borne coatings was applied in one coat at approximately 150 square feet per gallon coverage, while the 32A19 coating was applied in one coat a approximately 180 square feet per gallon coverage. The white solvent borne coating 19A19 was applied at 150 square feet per gallon and allowed to dry overnight and then top coated with 23A19 at approximately 250 square feet per gallon. All test specimens will be allowed to cure for seven days at standard conditions before testing.

TEST PROCEDURES (cont.)

The coatings were applied to metal panels for the impact and flexibility tests.

TEST RESULTS

The test results are shown below:

Product ---→	19A19 <u>23A19</u>	<u>32A19</u>	<u>32019</u>
Pull off Adhesion, PSI	425 (c)	500 (a)	435 (b)
Scrape Adhesion	2.0 Kgs.	0.5 Kgs.	0.5 Kgs.
Impact Resist, In lbs	5	10	25
Flexibility, 1/8 " rod	No cracks	No cracks	No cracks

- (a) Cohesive failure to concrete
- (b) Adhesive failure to coating
- (c) Adhesive failure of 2nd coat to 1st coat.

COMMENT

Impact resistance is not a typical test run on coatings for concrete floors. The flexibility by Mandrel bend test is more typical.

DL Labs, Inc.

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