| Acrovyn by Design® Chemical Resistance Testing



March 31, 2014

Mr. Tom Gay Construction Specialties, Inc. 347 Broad Street Hughesville, Pennsylvania 17737

RE: CHEMICAL RESISTANCE - TEST SUMMARY

Dear Mr. Gay:

Architectural Testing, Inc. was contracted by Construction Specialties, Inc. to conduct chemical resistance testing of their standard reverse print Acrovyn by Design product in accordance with ASTM D 543, Standard Practices for Evaluating the Resistance of Plastics to Chemical Reagents. The project resulted in the following observations.

Changes After 1-Week Exposure at Room Temperature

Changes After 1-week Ex	
Chemical	Observation
Acetic Acid 5%	No Change
Acetone	Dulling, curling, softening/swelling, delamination
Ammonium Hydroxide, 10%	Delamination
Citric Acid, 1%	No Change
Carbon Tetrachloride	Dulling, Delamination
Ethyl Acetate	Dulling, curling, softening/swelling, delamination
Ethyl Alcohol, 95%	Delamination
Hydrochloric Acid, 10%	Delamination
Hydrofluoric Acid, 40%	Delamination
Hydrogen Peroxide, 3%	Delamination

Chemical	Observation
Nitric Acid	Dulling, curling, softening/swelling, delamination
Sodium Carbonate, 20%	Delamination
Sodium Chloride, 10%	No Change
Sodium Hydroxide, 10%	Delamination
Sulfuric Acid, 30%	Curling, softening/swelling, delamination
Aviation Gas Grade, 100LL	No Change
Clorox	Dulling, Delamination
Denatured Alcohol	Delamination
Bravo Cleaner	Dulling, Delamination

Full details of these tests are available in report D3578.01-106-31. If you have any questions regarding this test summary, please feel free to contact me at your convenience.

For ARCHITECTURAL TESTING, INC.:

Todd D. Burroughs Senior Project Engineer Components / Materials Testing

TDB:tdb/jas

