

GRANITEX™ Technical Data

Vortex® Granitex™ Glaze System

Product Description:

The Vortex® Granitex™ Glaze is a two part, 1 to 1 ratio aliphatic urethane coating that has been hydrolysis tested and shown to be five to ten times **lower** in water absorption than conventional polyurethane liner systems. The Granitex™ Glaze has been subjected to a severe hydrolysis test that required immersion of the glaze in water at 90°C for a period of 28 days. **Additional testing was performed for US military, passed specifications simulating about 10 years of service at 35°C at 95% relative humidity.**

Vortex® Granitex™ Glaze Testing Results

Tensile Strength Retention and Water Absorption of Granitex™ Glaze compared to a conventional urethane material:

Product Tested	% of Tensile Strength Retention at 90°C Water for 14 days	% of Tensile Strength Retention at 90°C Water for 28 days	Water Absorption (% of Wt gain) 7 days
Granitex™ Glaze	98	90	0.11
Conventional Urethane Material	65	51	2.10

Chlorinated Water Resistance of Granitex™ Glaze vs. standard urethane material:

Product Tested	Tensile Strength (%) Change	Elongation Change	Tear Strength	Hardness Change	Appearance Change
Granitex™ Glaze	+2.7	0	5.6	0	Slight Discoloration
Conventional Urethane Material	-12.8	+15	-4.3	-5.0	Blistering & Tacky