

December 4, 2020

Mr. Mike Consalvi
Ecobeton USA
4894 Sparks Blvd.
Sparks, NV 89436

Phone: 800-723-2198
Email: mconsalvi@ecobeton-usa.com

Subject: **Report of Results for Freeze/Thaw Resistance Testing**
Product Name: Vetrofluid
TEC Services Project No: TEC 20-1617
TEC Laboratory No: 20-769

Dear Mr. Consalvi:

SGS TEC Services is an AASTHO R18, ANS/ISO/IEC 17025:2005 and Army Corp of Engineers accredited laboratory. SGS TEC Services is pleased to present this report of our test results on the submitted products designated as “Vetrofluid”. Our services were performed in accordance with the terms and conditions of our Service Agreement TEC-PRO-20-1617. The test results presented only pertain to the samples tested.

A total of three freeze/thaw beam specimens were made at to our Lawrenceville, GA facility in June of 2020. The test specimens had all the surfaces coated with Vetrofluid once they reached an age of 28 days. The Vetrofluid coated specimens were cured for two weeks before the specimens started testing.

Ecobeton requested the testing be performed in accordance with ASTM C666-15 *Standard Test Method for Resistance of Concrete to Rapid Freezing and Thawing*. Results of the ASTM C666 testing are reported in Table 1. Before and after photos of the test specimens are attached to this report in Photos 1&2.

Table 1 – ASTM C666 Freeze/Thaw Resistance Test Results

Total Cycles Completed	Fundamental Transverse Frequency, kHz			Relative Dynamic Modulus, %			Average Relative Dynamic Modulus, %
	Sample 1	Sample 2	Sample 3	Sample 1	Sample 2	Sample 3	
0	1.895	1.895	1.895	100	100	100	100
38	1.836	1.836	1.836	94	94	94	94
62	1.836	1.836	1.836	94	94	94	94
96	1.836	1.836	1.836	94	94	94	94
130	1.836	1.836	1.836	94	94	94	94
162	1.836	1.836	1.836	94	94	94	94
190	1.836	1.836	1.836	94	94	94	94
218	1.836	1.836	1.836	94	94	94	94
246	1.836	1.836	1.836	94	94	94	94
282	1.836	1.836	1.836	94	94	94	94
303	1.836	1.836	1.836	94	94	94	94
Durability Factor (%)				94	94	94	94
Length Change (%)				0	0	0	0
Weight Change (%)				0.0	0.0	0.0	0.0

*Note: Specimen surfaces were coated with the Vetrofluid product by Ecobeton representative Mike Consalvi when the specimens reached an age of 28 days.

SGS TEC Services appreciates the opportunity to provide our professional services for this important project. If you have any questions regarding this report, or if we can be of further assistance please contact us at 770-995-8000.

Sincerely,

SGS TEC SERVICES, INC.



Chip P. Sherwood Jr.
 Project Manager



Shawn P. McCormick
 Laboratory Principal

Attachments: Photos 1&2 – Test Specimen Photos

Photo #1 – Coating of Freeze/Thaw Beam with Vitrofluid

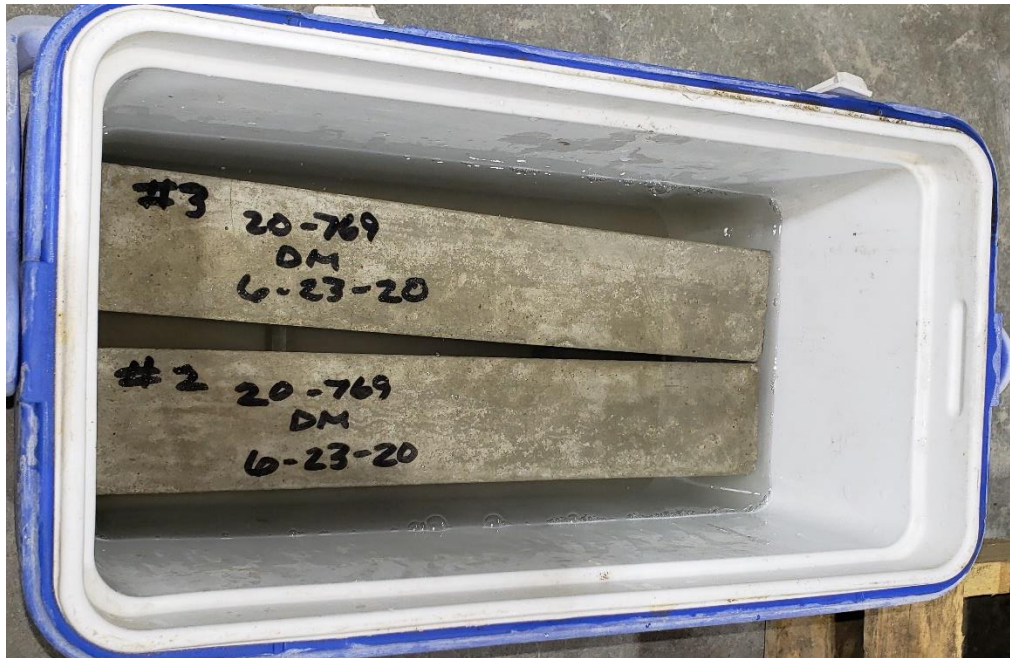


Photo #2 – Freeze/Thaw Beam After 300 Cycles

