

January 25, 2021

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Subject: **Report of Results for ASTM C1543 Chloride Ion Penetration Testing**  
**Product Name: Vetrofluid**  
**SGS TEC Services Project No: TEC 20-1617**  
**SGS TEC Laboratory No: 20-769**

Dear Mr. Consalvi:

SGS TEC Services is an AASTHO R18, ANSI/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 four ponding slab specimens were made at to our Lawrenceville, GA facility in June of 2020. Two specimens were designated as test specimens and had the surfaces to be ponded coated with Vetrofluid once they reached an age of 28 days. The remaining two specimens were uncoated and used as control specimens. The Vetrofluid was cured for two weeks before the specimens started testing.

Ecobeton requested the testing be performed in accordance with ASTM C1543-10a *Standard Test Method for Determining the Penetration of Chloride Ion into Concrete by Ponding*. Upon completion of the ponding period, the acid soluble chloride content testing was performed in accordance with ASTM C1152-20 *Standard Test Method for Acid-Soluble Chloride in Mortar and Concrete* as required by ASTM C1543-10. A summary of the test results is reported in Table 1.

**Table 1 – Results of Chloride Content Results per ASTM C1543 Chloride Ponding Testing**

Test Method & Property	Test Depth (mm)	Average Results of 2 Control Specimens	Average Results of 2 Test Specimens
ASTM C1152 - Acid Soluble Chloride Content per ASTM C1543 (% by wt.)	10 - 20	<b>0.0514</b>	<b>0.0189</b>
	25 – 35	<b>0.0168</b>	<b>0.0051</b>
	40 – 50	<b>0.0062</b>	<b>0.0032</b>
	55 - 65	<b>0.0029</b>	<b>0.0028</b>

\*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