



Certificate No. 2002-1007

March 30, 2020

Mr. Dagoberto Barrios  
President  
Premier Surface Supply, LLC  
2701 Enterprise Ave  
Suite 3  
Billings, MT 59106

**Subject:** Compressive strength testing per ASTM C39 on epoxy matrix composite material for roadway pothole repair

**References:** 1. Purchase Order from Premier Surface Supply, February 26, 2020  
2. ASTM C39, *Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens*

Dear Mr. Barrios:

Per your request, we have completed compressive strength testing on the pothole repair material specimens supplied by your firm. This report contains a summary of our testing technique and results.

The samples are visually similar. With the exception of Specimens 3A and 12 A, all are a natural tan color. The other two are black in color. The specimens, as provided, are shown in Figure 1.



Figure 1. As-received cylindrical test specimens.

Loading was conducted on our Satec Baldwin Model 120 BTE Universal Testing Machine, DEI 100, which is in current calibration and traceable to the National Institute of

Standards and Technology (NIST). Loading was performed at a nominal rate of 25,000 lb/min. Figures 2 and 3, below, show typical breaks.



*Figure 2. Post test condition of Specimen #2 - typical break.*



*Figure 3. Post test condition of Specimen #11 - also typical.*

Table 1, below, summarizes the load test results.

**Table 1. Compressive Strength Test Results**

Specimen	Cure time	OD [in]	Fmax [kip]	Strength [ksi]	Comment
1	3 hr	1.992	16.81	5.39	initial setup issue with end prep
2		1.998	33.58	10.71	normal break
3		1.987	34.5	11.13	normal break
3A*		1.994	41.85	13.40	normal break
4	1 day	1.987	31.65	10.21	normal break
5		1.985	33.38	10.79	normal break
6		1.990	38.66	12.43	normal break
7	7 days	1.987	33.56	10.82	normal break
8		1.988	30.62	9.86	normal break
9		1.984	32.12	10.39	normal break
10	28 days	1.993	31.2	10.00	normal break
11		1.991	29.91	9.61	normal break
12		1.996	32.64	10.43	normal break
12A*		1.990	39.86	12.82	normal break

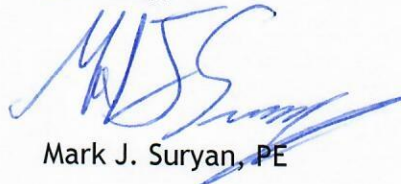
\* black specimen

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Thank you for using Dynamark Engineering, Inc. Please give me a call at 425.483.4447 if you have any questions regarding this report, or when we can be of additional service.

Reviewed by: Elizabeth Sylvester 

Sincerely,



Mark J. Suryan, PE