

PULL-OFF ADHESION TEST OF BASECRETE COATING

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Test Method: ASTM D7234-12

Specimen Preparation: Basecrete Dry Mix and Basecrete Liquid were mixed according to manufacturer's recommendations and applied with trowel to concrete surface (4" (100 mm) thick concrete slab made of Sacrete High Strength Concrete Mix) in two coats. Maximum thickness of the coating was approximately 3/16" (4.76 mm). Two samples, one with color and one without color, were prepared for testing. The samples were allowed to dry for 14 days.

Test Procedure: Seven (7) test dollies of 20 mm diameter were installed on the two Basecrete samples using Araldite adhesive. Adhesive was allowed to dry for a minimum of 24 hours. Then the Pull Tests were performed using Elcometer Model 106. A graduated magnifier was used to read the location of the indicator on the Elcometer. The Pull Test Data is presented in Table I.

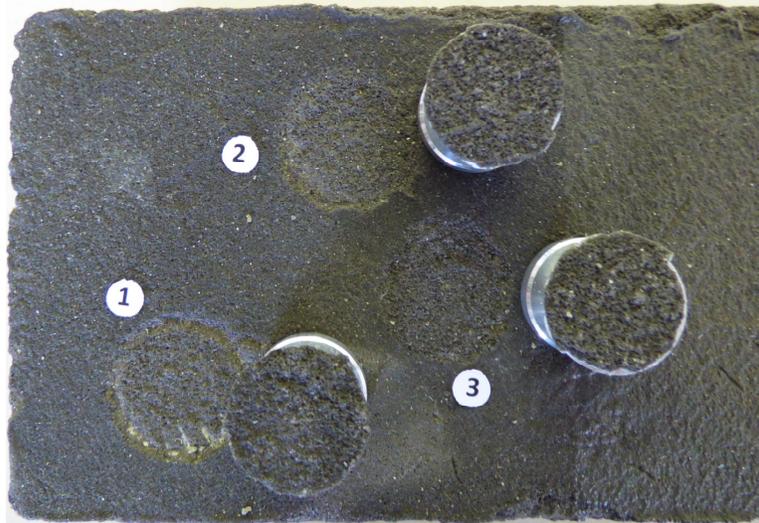
TABLE I

Sample Number	Elcometer Reading	Adhesion Strength (psi)	Adhesion Strength (MPa)
1	55	112.75	0.777
2	80	164	1.131
3	60	123	0.848
4	55	112.75	0.777
5	70	143.5	0.986
6	80	164	1.131
7	75	153.75	1.060

Average = 139.1 psi (0.959 MPa) & Standard Deviation = 22.81 psi (0.157 MPa)

Observation: All samples showed no delamination between Basecrete and the concrete substrate nor Basecrete and the Dolly surface.

Photos:



Samples 1, 2 and 3



Samples 4, 5, 6 and 7

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