

ASTM D7234 Pull-Off Adhesion Strength of Coatings on Concrete
120-DAY RESULTS

Sample I.D.	Product	Age (days)	Tensile Bond Strength, psi	Failure Mode	Temp/RH (°F/%)	Average tensile bond strength, psi (Rounded to the nearest 10psi)	Std deviation tensile bond strength, psi
A	E100-VB5 over 50% RH	120	388	d-100%	73/50	380	11
B			381	d-100%	73/50		
C			366	d-100%	73/50		
A	E100-VB5 over 85% RH	120	282	d-100%	73/50	310	25
B			310	d-100%	73/50		
C			331	d-100%	73/50		

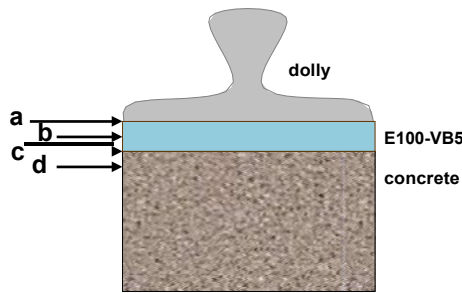


Figure A

Key for plane of failure (failure mode)

- a. Adhesive failure at E100-VB5 and epoxy ("5-minute epoxy") interface to dolly
- b. Cohesive failure within E100-VB5
- c. Adhesive failure between E100-VB5 and concrete
- d. Cohesive failure within concrete



Figure B E100-VB5 over 50% RH



Figure C E100-VB5 over 85% RH

Notes:

1. Tests performed in accordance with ASTM D7234-12 using Germann Bond Test Instrument, s/n 050819 calibration Sept. 29, 2014, with 50mm diameter circular fixture and 55mm annular bearing ring.
2. The bond strength (or tensile strength) in PSI is calculated as the actual pullforce in Newtons divided by the pulling area of 1963 mm² (for a 50mm core diameter) and multiplying by 145.
3. Tests reported herein represent specifically the specimens tested.
4. This report may not be reproduced except in its entirety.
5. Prepared specimens were mounted and sealed over trays containing saturated salt solutions, with a minimum 1/4-in. air gap, for the amount of time indicated in the "Age" column.