## STOP

## RapidShield<sup>™</sup> Resistance to Thermal Cycling

The ability of a floor coating to maintain adhesion after being exposed to thermal cycling is a key performance characteristic and should be considered when determining if a coating is "fit for use." RapidShield<sup>™</sup> has been tested in accordance with European standard EN 1062-11 and found to exhibit excellent adhesion after various thermal cycles. Testing was performed via an independent laboratory and utilized standard coating configurations applied to standard concrete blocks. After exposure to the various thermal cycles, the coatings were then tested for adhesion using the pull-off method. The following table provides the results of this testing. Official testing certificates from the laboratory that performed the testing are available upon request.

Thermal Compatibility Condition	Adhesion Test Method	Coating Configurations	Result* (N/mm²)	Result* (psi)
Adhesion Strength by Pull-Off Test (N/mm <sup>2</sup> ) No Exposure	EN 1542 ASTM D7234	cl/cl cl/HB cl/c/c/cl cl/c/c/HB	6.6 4.9 5.3 5.6	957 710 768 812
Adhesion after Thermal Compatibility Heat Aging (EN 1062-11) 7 days @ 70°C	EN 1542 ASTM D7234	cl/cl cl/HB cl/c/c/cl cl/c/c/HB	7.6 6.3 6.1 5.8	1100 914 884 841
Adhesion After Thermal Compatibility Water Storage (EN 1062-11) 3 cycles, 24 hrs. water (23°C); 24 hrs air (50°C)	EN 1542 ASTM D7234	cl/cl cl/HB cl/c/c/cl cl/c/c/HB	5.0 5.0 4.7 5.1	725 725 681 739
Adhesion After Thermal Compatibility Freeze thaw/deicing salt (EN 1062-11) 20 cycles, 2 hrs. water (-15°C); 2 hrs. water (21°C)	EN 1542 ASTM D7234	cl/cl cl/HB cl/c/c/cl cl/c/c/HB	3.4 3.6 3.2 4.5	493 522 464 652

\* Each datum displayed is the average of three readings.

## Data Table Key - Coating Configurations Tested

cl/cl	RapidShield™ 0007 Clear applied as a topcoat over RapidShield™ 0007 Clear applied as a Primer
cl/HB	RapidShield™ 0007 Clear applied as a topcoat over RapidShield™ 0008 High Build
cl/c/c/cl	RapidShield <sup>™</sup> 0007 Clear applied as a topcoat over two coats of RapidShield <sup>™</sup> Color on top of RapidShield <sup>™</sup> 0007 Clear applied as a Primer
cl/c/c/HB	RapidShield <sup>™</sup> 0007 Clear applied as a topcoat over of two coats of RapidShield <sup>™</sup> Color on top of RapidShield <sup>™</sup> 0008 High Build

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