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18 January 1996

**Committee C24 on Building Seals and Sealants  
Subcommittee C24.40 on Weathering**

**Research Report C24-1053**

**Interlaboratory Study to Establish Precision Statements for ASTM  
C1501, Standard Test Method for Color Stability of Building  
Construction Sealants as Determined by Laboratory Accelerated  
Weathering Procedures**

ASTM International  
100 Barr Harbor Drive  
West Conshohocken, PA 19428-2959

JANUARY 18, 1996

RAW STATISTICAL DATA FOR: ASTM C24.32.62

STANDARD TEST METHOD FOR: COLOR CHANGE OF A SEALANT UNDER ARTIFICIAL  
ACCELERATED WEATHERING CONDITIONS

RESULTS FOR DELTA E (deab) CONDITION A  
G-53 FLOURESCENT UV & CONDENSATION APPARATUS

TABLE 1:

LAB	C	A	B
ONE	19.630	2.240	2.470
	19.210	2.170	2.460
	18.550	2.210	2.210
TWO	18.740	2.840	2.390
	17.810	2.790	2.620
	15.530	2.720	2.620
THREE	13.750	1.370	3.540
	20.370	1.740	3.600
	19.930	3.530	3.460
FOUR	15.870	2.950	2.250
	14.830	2.860	2.580
	13.030	2.810	2.510
AVERAGE	17.271	2.518	2.733
TOTAL	207.250	30.220	32.800

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PRECISION AND BIAS STATEMENT FOR: ASTM C24.32.62

STANDARD TEST METHOD FOR COLOR CHANGE OF A SEALANT UNDER  
ARTIFICIAL WEATHERING CONDITIONS FOR DELTA E (dEab) CONDITION A  
G-53 FLOURESCENT UV & CONDENSATION APPARATUS.

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The repeatability (within a given laboratory) interval for 3 materials tested by 4 laboratories is 2.722 for dEab. In future use of this test method, the difference between two test results obtained in the same laboratory on the same material will be expected to exceed 2.722 for dEab only about 5 percent of the time.

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The reproducibility (between given laboratories) interval for 3 material tested by 4 laboratories is 3.561 for dEab. In future use of this test method, the difference between two test results obtained in a different laboratory on the same material will be expected to exceed 3.561 for dEab only about 5 percent of the time.