

Flame Spread and Smoke Developed Indices of Hawk's Coating Systems

In accordance with ASTM E84 or UL723

BACKGROUND:

Building codes are sets of regulations governing the design, construction, alteration, and maintenance of structures. Rather than create and maintain their own codes, most states and local jurisdictions adopt the model building codes maintained by the International Code Council (ICC).

The ICC International Building Code (for new buildings) and International Fire Code (for existing buildings) limit the allowable flame spread and smoke development characteristics of building materials used for interior finishing, based on location and occupancy type.

Materials are grouped in the following classes by Flame Spread Index and Smoke Developed Index when tested in accordance with ASTM E84 or UL723, "Test for Surface Burning Characteristics of Building Materials":

Classification	Flame Spread Index	Smoke Developed Index
Class A	0—25	0—450
Class B	26—75	0—450
Class C	76—200	0—450



RESULTS:

The table below presents the results of testing conducted by UL (Underwriters Laboratories) on Hawk Laboratories' coating systems in accordance with Standard ANSI/UL723, Eleventh Edition, dated April 19, 2018 (ASTM E84).^{1, 2} This test measures how far and how fast flames spread across the surface of the test sample and the concentration of smoke the coating emits as it burns. In summary, the coatings with a Class A rating have burn characteristics similar to brick or tile, while Class B ratings have burn characteristics similar to whole wood like Western Red Cedar or Engelmann Spruce. A Class C rating would have burn characteristics similar to plywood or particle board.

Coating System	Flame Spread Index	Smoke Developed Index	Classification
GlasTech [®] Lo 8000	30	20	Class B
GlasTech [®] Lo 8500	30	20	Class B
GlasTech [®] Lo 9000	25	20	Class A
GlasTech [®] Lo 9100	25	20	Class A
GlasTech [®] Lo 9200	25	20	Class A
GlasTech [®] WB 7900	25	20	Class A
CounterCote [™] Lo 9500	25	20	Class A
CabinetCote [™] Lo 9700	25	20	Class A
IsoFree [®] Lo	30	50	Class B
IsoFree StoneGard [®] Lo	30	50	Class B
StoneGard [™] Lo	25	20	Class A
AresGard [®] Lo RL	25	20	Class A
UltraGrip [™] WB 7400	25	20	Class A
UltraGrip [™] Lo 4400	25	20	Class A
StoneFlecks [™] Ultra Multi-Color Finish	25	20	Class A



¹<https://www.astm.org/Standards/E84.htm>

²http://sfm.dps.louisiana.gov/doc_flamespread.html

