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Test report
of
Technical laboratory

senoson AM1800TopX for dry erase boards (white boards)

Report number UB – 14 – 024

The test results refer to the tested batches only.
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1. Task / Description:

In order to give a statement regarding the usage of **SENOSON AM1800TopX** for dry erase boards we have done the following tests:

- Scrub resistance
- chemical resistance

For comparison we have got a HPL sample from the customer which is currently used for this application.

2. Scrub resistance (Martindale Test):

In the martindale test unit, an abrasive material is moved by defined load and defined cycles against the surface of the test pieces. After the test, there are two ways to analyse the resistance of the surface. Measure the loss of gloss and visual assessment.



Fig.1: Martindal test unit

a. Scrub resistance 1 (Modified Martindale test)

To simulate a long-term use of a whiteboard, a typical whiteboard cleaning cloth (fig. 2) on a sponge rubber (fig. 3) was applied to a Martindale station (fig. 4). With the Martindale machine a force of 10N was applied and the test was done 6 times summing up to 10000cycles.



Fig.2: Whiteboard wipes



Fig.3: Cleaning cloth on the rubber

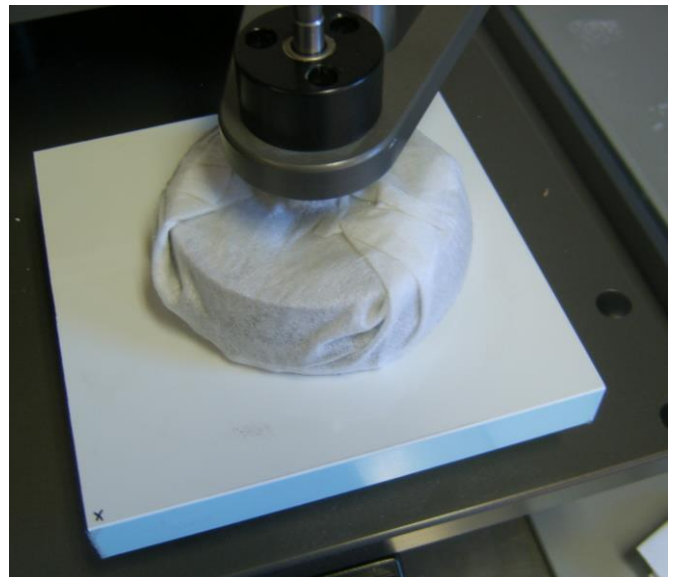


Fig.4: Modified Martindale station

b. Scrub resistance 2 (Original Martindale test)

This test is the standard one for furniture applications.

Parameters:

Load: 6N

Cycles: 85

Scrub Material: Scotch Brite 7448 (aluminium oxide abrasive)

Results:

	AM1800TopX	HPL	Visual assessment
	Loss of gloss [%]		
Scrub resistance 1	0,3	0,5	No visible changes on both samples
Scrub resistance 2	3	33	Many scratches visible on HPL. No scratches visible on AM1800TopX

Tab.1: Scrub resistance

3. Chemical resistance

This test was done according to DIN EN 12720:2009. The chemical was applied to the surface for 1 hour. After that a visual assessment was done.

Chemical used: Acetone

Sample:

**Chemical resistance according to
[DIN EN 12720 : 2009] cold liquids**

Acetone

1 hour

AM1800TopX	HPL
no visible change	no visible change

4. Conclusion:

It seems that **SENCO AM1800TopX** is very suited for dry erase boards. The scrub resistance 2 of **SENCO AM1800TopX** is better than the current product (HPL). Regarding the chemical resistance there is no difference between the products.

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