



# MOMENTIVE

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## Test report

Project name	:	Segal project
Project number	:	RK2010012
Type of test	:	Adhesion
Date	:	10-Mar-10
Tested by	:	Ricardo Koens

### Summary:

Mr. Smirnov has sent some aluminum samples (55514, 8603, 8606) of Segal to be tested with and without primer on adhesion with SSG4000E and SSG4400.

SSG4000E and SSG4400 on aluminum substrates; 8606 white coated and 8603 white coated need to be primed with SS4004P to get a perfect adhesion during all test conditions.

SSG4000E and SSG4400 on aluminum substrates; 8606 not coated and 55514 show perfect adhesion during all test conditions without a primer.

**Purpose of testing:**

Mr. Smirnov has sent some aluminum samples (55514, 8603, 8606) of Segal to be tested with and without primer on adhesion with SSG4000E and SSG4400.

**Substrate information:**

Substrate	Type	Cleaning product
Aluminum	8606 white coated	MEK
Aluminum	8606 not coated	MEK
Aluminum	8603 white coated	MEK
Aluminum	55514	MEK

**Test(s):**

Prepare peel adhesion samples with SSG4000E and SSG4400. They will be tested with and without primer SS4004P.

**Test conditions:**

Initial : 14 days room temperature cure (23 ± 2 °C, 50 ± 5% RH)  
Water immersion : 14 days initial + 7 days H<sub>2</sub>O  
Oven 100 °C : 14 days initial + 7 days H<sub>2</sub>O + 7 days 100°C

**Results:**

**Adhesion results on Aluminum substrates**

Substrate Aluminum	Grade	Primer	Initial CF (%)	Water immersion CF (%)	Oven 100 °C CF (%)
8606 white coated	SSG4400	none	0	80	100
		SS4004P	100	100	100
	SSG4000E	none	0	100	100
		SS4004P	100	100	100
8606 not coated	SSG4400	none	100	100	100
		SS4004P	100	100	100
	SSG4000E	not primed	100	100	100
		SS4004P	100	100	100
8603 white coated	SSG4400	none	0	0	100
		SS4004P	100	100	100
	SSG4000E	none	50	50	50
		SS4004P	100	100	100
55514	SSG4400	none	100	100	100
		SS4004P	100	100	100
	SSG4000E	none	100	100	100
		SS4004P	100	100	100

**Conclusion:**

SSG4000E and SSG4400 on aluminum substrates; 8606 white coated and 8603 white coated need to be primed with SS4004P to get a perfect adhesion during all test conditions.

SSG4000E and SSG4400 on aluminum substrates; 8606 not coated and 55514 show perfect adhesion during all test conditions without a primer.

**Approved by: R. Koenis**

**Date: 10-Mar-10**

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