

COT bv
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#### Adviesgroep Laboratorium

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Haarlem, January 27<sup>th</sup> 2016 Reference: LAB16-0088-BRF

Dear Sir / Madam,

Mr. R. van Bergen from Alkmaar, requested COT B.V. at Haarlem to carry out a comparative study into the functioning of Universol and Universol Eco. The assignment was given by Mr. Van Bergen by e-mail d.d. December 6, 2015.

Project data : 20160006

COT Project number : Mr. van Bergen from Alkmaar

Client : Universol, concentrate, Universol Eco concentrate and the Samples : Sikkens Paints Rubool BL Sature Satin and Rubbol SB High gloss

Receive samples : January 5, 2016

Monster numbers : 05.01.16 / 0002 to 0005
Research period : 7 - 27 January 2016
Note date : January 27, 2016

## Test design

The study was carried out in accordance with the COT offer of December 3, 2015 and the further precision on December 15, 2015. It is about comparing the adhesion of a coat of paint on an aged paint layer that has been cleaned with Universol or Universol Eco.

### Performance

Meranti panels of 100 x 300 mm with 1 layer of alkyd resin primer.

After 3 days of drying at 23 oC and 50% relative humidity the panels lightly sanded and painted with Sikkens Rubool Satura (105 g / m2) or Rubbol SB High Gloss (80 g / m2) After aging the paint systems (5 days at 40 oC) grease and oil applied and samples further outdated.

Samples cleaned with Universol or Universol Eco (diluted 1 to 20), rinsed with water and dried.

A second layer of top coat (same as already present) was applied to the panels.

Samples were dried for 1 day at 23 oC and then for 1 day at 40 oC.

Adherence determined according to ISO 2409 (cross-cut method) with and without tape load, execution in 3-fold. Scores 0 = no detachment up to 5 = maximum detachment.





# Results adhesion measurements

Cleaner	Topcoat	Adhesion (ISO 2409)	
		without tape	with tape
Universol	Rubbol BL Satura	000	000
Universol Eco	Rubbol BL Satura	000	000
Universol	Rubbol SB*	000	002
Universol Eco	Rubbol SB*	000	000

<sup>\*</sup> Rubbol SB had not yet fully cured

# Conclusion

There are no differences between Universol and Universol Eco in terms of the adhesion of the 2 topcoats examined on cleaned / degreased aged paint layers.

CENTRUM VOOR ONDERZOEK EN TECHNISCH ADVIES (COT bv)

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Add port

