

Det Norske Veritas, Section for Materials Technology and Condition Management in Bergen, has carried out adhesion strength measurements (performed by P.A.T. adhesion test equipment) on coating systems applied on 5 mm thick steel panels cleaned by means of "Safety Tools", equipment WC 25 / 2S, Atlas Copco LBV24S020 B/C, 2000 R/M, and WC 80 / 2S LBV34S010 B/C, 1000 R/M to a grade M.W.M. (mechanical white metal). The coating systems were applied by Leirvik Module Technology and allowed to cure for 7 days at ambient temperature before the adhesion tests were carried out.

The tests showed no adhesion failure between the substrate and the coating.

The results from the test are given in table 1 in the report.

Rapportside:

Table 1 Test results

Tool	Coating system	Panel no	Test no	Adhesion strength / Type of fracture	Measured dry film thickness (µm)*
WC 25	75 µm Interzinc 22	17	1	8.4 MPa 25 % C, 75 % D	350 - 380
			2	8.8 MPa 15 % B, 25% C, 60 % D	
	35 µm Intergard 405	18	1	6.8 MPa 85 % D, 15 % -/Y	400 - 410
			2	9.0 MPa 100 % D	
WC 80	75 µm Interzinc 22	19	1	7.4 MPa 90 % D, 10 -/Y	350 - 400
			2	8.0 MPa 25 % C, 70 % D, 5 % -/Y	
	35 µm Intergard 405	20	1	6.8 MPa 100 % D	380 - 420
			2	8.0 MPa 85 % D, 10 % E, 5 % -/Y	
200 µm Intergard 475 HS					
			60 µm Interfine 990		

* The dry film thickness was measured by means of a PosiTector 6000 dry film thickness meter

A Substrate

A/B Fracture between substrate and first coat

B Fracture in first coat

B/C Fracture between first and second coat

C/D Fracture between second and third coat

D Fracture in third coat

D/E Fracture between third and fourth coat

E Fracture in fourth coat

-/Y Fracture between the outer coat and the glue

Kind regards

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