



TECHNICAL DATA

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Independent Test Results

Should you mechanically abrade an old epoxy before recoating or use Royal's Easy Prep Surface Conditioner, the following test was conducted over aged epoxy coatings in a ship's ballast tank.

See following page...



EASY PREP TEST		Dolly Adhesion Test I.S.O. 4624.		Page: 1/1					
Material to be tested									
Name of material: A test was conducted to test the relative adhesion of Royal Coatings Easy Prep surface conditioner versus abrading the surface by mechanical abrading over an existing well adhered epoxy system.									
Tester Positest AT Digital		Diameter Dolly 20mm		Testing execution Adhesive: Araldite 2011 Pull rate: >0,5 N/s					
Climate: air 23C; steel 23; DP 2,0C; diff 21; RH 14									
No. 17	Location Aft Peak Ballast Tank	Pull -Off value		Fracture pattern in % of breaking area					
		single result	average value	Cohesion-fraction		Adhesion. fraction			
				D1	D2	S/D	D1/D ₂	D2/K	K/S
Easy-Prep application									
1/1		6,30			20		60		20
1/2		7,28			5			95	
1/3		5,16	6,24			3		15	82
Mechanic dinking area									
1/1		6,20				10		90	
1/2		10,89				45		55	
1/3		5,82	7,63			1		3	96
Remarks: The tests given above show all aspects, please note that the 10.89 MPa on the mechanical test is a rouge result, therefore the writer would estimate the overall percentage results between easy prep and mechanical abrading should read approximately the same. Two cross cut adhesion tests in accordance with I.S.O. 2409 were also performed with the mechanical dinking area showing 0 and the easy prep area showing 0 to 1, again the results almost the same.									
Fraction in...				Fraction between ...					
D1 old coating				S/D Substrate and Old coating					
D2 new coating				D1/D2 Old- and new coating					
				D2/K New coating and adhesive					
				K/S Adhesive and Dolly					
Date of Test.18.06.09									
Performed by: Mr. Jerry Dobson Senior Coating Advisor U.K.I.S.									