

Determination of Compliance with Reduction Scheme for Coatings Materials

BAE SYSTEMS SUBMARINES, BARROW-IN-FURNESS

Instructions: The below data sheet provides an easy-to-use tool to determine whether your installation meets the Reduction Scheme solvent:solids ratio. Please enter the data in the yellow boxes as required. When all your data has been entered the spreadsheet will automatically calculate your solvent balance and allowable solvent under the Reduction Scheme and display the difference. The message at the bottom of the table tells you whether your installation meets the Reduction scheme solvent:solids ratio.

If Extra rows are required for a table then press the appropriate insert row button found in the top right of the table

Target Emission Factor

Period Covered

COATINGS USED IN ACTIVITY:

Ref	Type of Product	Description of Use of Product	VOC g/kg or g/litre of product supplied as specified by supplier	Solids g/kg or g/litre of product supplied as specified by supplier	Litres or kg of product used in period as supplied	Mass of solids used in kg	Mass of solvent used in kg	Target Emission Factor from Table 4 of Guidance Note	Allowable solvent for product in kg under Reduction Scheme	Solvent balance in kg against allowable solvent under Reduction Scheme
1	Sigma Aquacover 500		6	676	320	216.32	1.92	0.6	130	128
2	Sigmacover 400		163	1190	5488	6530.72	894.544	0.6	3918	3024
7	Biogard M630 Pebble		2	696.8	287	199.982	0.574	0.6	120	119
13	Corroless EPF		0	1484.1	185	274.559	0	0.6	165	165
14	Corroless RF35		0	1248	161	200.928	0	0.6	121	121
17	Envirogard M770 Pebble		129	456.3	1130	515.619	145.77	0.6	309	164
18	Envoy TF500		388	1449	25	36.225	9.7	0.6	22	12
19	Epidek M377		985.8	382	108	41.256	106.466	0.6	25	-82
20	Epigrip C425		249	1155	3376	3899.28	840.624	0.6	2340	1499
23	Epigrip J984 Rich Zinc Primer		399	1624.4	55	89.342	21.945	0.6	54	32
24	Epigrip L524		344	864	4034	3485.38	1387.7	0.6	2091	704
27	Epigrip M922M		179	1245	45	56.025	8.055	0.6	34	26
28	Epigrip M262		846	450	65	29.25	54.99	0.6	18	-37

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29	Epigrip M922		167	1319.7	1292	1705.05	215.764	0.6	1023	807
30	Sherwin Williams C530		398	785	143	112.255	56.914	0.6	67	10
31	Epigrip M671				15					
33	Sherwing Williams G280		643	310.5	360	111.78	231.48	0.6	67	-164
34	Metagard L574 Red Oxide		621	578.04	3074	1776.89	1908.95	0.6	1066	-843
40	Resistex M535		572	423.5	198	83.853	113.256	0.6	50	-63
44	Sikaflex 221		44	1300	245	318.5	10.78	0.6	191.1	180.32
47	Spraylat E106 peelable protective coating		0	348.8	386	134.637	0	0.6	81	81
48	Sikagard 203-w (Steridex)		0	630.45	15	9.45675	0	0.6	6	6
52	Trimite P8000 (Powder Coating)		0	1600	1699	2718.4	0	0.6	1631	1631
53	Trimite Q55X		458	550	75	41.25	34.35	0.6	25	-10
54	Trimite Q50		420	550	10	5.5	4.2	0.6	3	-1
59	Wessex WRA519 Primer		0	1000	630	630	0	0.6	378	378
60	Intertherm 50		509	508.5	182	92.547	92.638	0.6	56	-37
61	Epidek L716		420	683.4	7	4.7838	2.94	0.6	3	0
64	Gummipaint		770	230	22	5.06	16.94		0	-17

OTHER SOLVENTS USED IN ACTIVITY E.G. THINNING/CLEANING :

Ref	Type of Thinning/Cleaning or Other Solvent Used	Specific Gravity from Supplier	Litres used in period	Mass of other solvent used (kg)
1	GTA 220	0.85	0	0
2	Leighs No.5	0.89	1930	-1717.7
3	Leighs No.9	0.84	1745	-1465.8
4	Corroless No.4	0.86	180	-154.8
5	Corroless No.6	0.86	451	-387.86
6	Thinner 90-58	0.85	300	-255
7	Thinner 91-92	0.85	1350	-1147.5
8	Trimite ST59	0.88	5	-4.4
9	Enviromose Paint Stripper	1.01	10	
10	Amercoat 65	0.87	450	-391.5

SOLVENTS REMOVED FROM THE SITE AS WASTE

Ref	Type of waste	Estimated amount of solvent in waste (g/litre)	Amount of waste removed from site (litres)	Mass of solvent disposed of (kg)
1	Collected waste (assumed 3% paint, of which half solvent)			0

SUMMARY OF COMPLIANCE WITH THE REDUCTION SCHEME

Total solids used (kg)	23,325
Total solvent used in coatings (kg)	6,161
Total solvent used in thinners (kg)	5,525
Total solvent consumption (kg)	11,685
Mass of solvent disposed of (kg)	0
Target emission (kg)	13,992
Actual emission (kg)	11,685
Difference (kg)	2,307

The mix of products, thinners and equipment cleaning solvents used shows the installation meets the Reduction Scheme solvent:solids ratio