

Determination of Compliance with Reduction Scheme for Coatings Materials

BAE SYSTEMS MARITIME - 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	0.6
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Period Covered	Oct 2012 - Nov 2013
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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		0	520	430	223.6	0	0.6	134	134
2	Sigmacover 640		106	1299.5	10235.75	13301.4	1084.99	0.6	7981	6896
3	Ameron 71		435	693.3	5	3.4665	2.175	0.6	2	0
4	Anti ozanant *		0	0	0	0	0	0.6	0	0
5	Ambersil Release		128	190	0	0	0	0.6	0	0
5	Belzona 111/1121		0	2880	0	0	0	0.6	0	0
6	Belzona 2121 Elastomer		0	1150	0	0	0	0.6	0	0
7	Biogard M630 Pebble		0	884.8	495	437.976	0	0.6	263	263

8	Bostik 9252 Primer		690	280	26	7.28	17.94	0.6	4	-14
9	CANTL Hyperlast 2851245/2875044		0	2020	0	0	0	0.6	0	0
10	Chromate primer PR143		570	930	0	0	0	0.6	0	0
11	Cilcoat S260 Laquer		770	105	0	0	0	0.6	0	0
12	Cilrelease 400		810	90	0	0	0	0.6	0	0
13	Corroless EPF		34	966	845	816.27	28.73	0.6	490	461
14	Corroless RF35		35	965	226	218.09	7.91	0.6	131	123
15	CTL2 Hyperlast 7980007/7855096		0	710	0	0	0	0.6	0	0
16	Crystic 489 Resin		470	400	0	0	0	0.6	0	0
17	Drafil Hyperlast 7850925/7855096 *		0	710	0	0	0	0.6	0	0
18	Dunlop NPL 100 laquer		624	336	0	0	0	0.6	0	0
20	Duralast 7859/086		151	180	0	0	0	0.6	0	0
20	Envirogard M770 Pebble		89.05	821.6	1385	1137.92	123.334	0.6	683	559
21	Envoy TF500		388	287	5	1.435	1.94	0.6	1	-1
22	Epidek M377		336	382	40	15.28	13.44	0.6	9	-4
23	Epigrip C425 Grey Phosphate primer		217	1121	3568	3999.21	774.256	0.6	2400	1625
24	Epigrip C425 Off White Phosphate Primer		217	1121	0	0	0	0.6	0	0
25	Epigrip H735 Buff		282.75	1017.25	0	0	0	0.6	0	0
26	Epigrip H736 White		311.148	978.852	0	0	0	0.6	0	0
27	Epigrip J984 Rich Zinc Primer		418.938	2201.062	45	99.0478	18.8522	0.6	59	41
28	Epigrip L524 Aluminium & Grey		344.52	1005.48	611.75	615.102	210.76	0.6	369	158
29	Epigrip M111		416	380	0	0	0	0.6	0	0
30	Epigrip M251 Buff		405.03	974.97	20	19.4994	8.1006	0.6	12	4
31	Epigrip M253 Pebble		407.55	1022.45	20	20.449	8.151	0.6	12	4
32	Epigrip M262		386	450	75	33.75	28.95	0.6	20	-9

33	Epigrip M922 Grey & Black		170.289	1419.711	842	1195.4	143.383	0.6	717	574
34	Etch Primer K179 (K570)		732.4	167.85	0	0	0	0.6	0	0
35	Etch Primer PR30/TH43B		720	180	0	0	0	0.6	0	0
36	Expocrete UA Epoxy Filler		0	1950	0	0	0	0.6	0	0
37	FIWA Sealant		0	1253	0	0	0	0.6	0	0
38	Flushing oil hyperlast 4162147 *		0	0	45	0	0	0.6	0	0
39	Leighs C530		385	785	45	35.325	17.325	0.6	21	4
40	Hard Substrate primer Type K Hyperlast 2874016 part A 2875039 part B (MDI) *		0	1410	0	0	0	0.6	0	0
41	Intergard EAA820/821 Filler		820	730	0	0	0	0.6	0	0
43	Mac Wax		9.2	120	0	0	0	0.6	0	0
42	Leighs G280		710.7	439.3	280	123.004	198.996	0.6	74	-125
43	Metagard L574 Red Oxide		621.96	578.04	1360	786.134	845.866	0.6	472	-374
44	Leighs T75		427.284	562.716	0	0	0	0.6	0	0
45	Molykote 3402 anti-friction coating		707.4	372.6	0.25	0.09315	0.17685	0.6	0	0
46	PR148 Promoter		776	24	0	0	0	0.6	0	0
47	PR1783 Sealant Deck Plates		720	720	0	0	0	0.6	0	0
48	Release agent R801		10	910	2	1.82	0.02	0.6	1	1
49	Resistex M535		580	620	80	49.6	46.4	0.6	30	-17
50	Scotchcast 5136		900	100	0	0	0	0.6	0	0
51	Sigmatherm 175 (H/R alum)		391.88	618.12	0	0	0	0.6	0	0
52	Sigmatherm 500 (HR500 H/R alum)		600.27	469.73	0	0	0	0.6	0	0
53	Sikaflex 221		45.5	1254.5	0	0	0	0.6	0	0
54	Silent Running SR 1000			1043	0	0	0	0.6	0	0
55	Soft Substrate 3M 5136 Scotchcast primer *		900	880	0	0	0	0.6	0	0
56	Spraylat E106 peelable protective coating		0	350	555	194.25	0	0.6	117	117

57	Stand off - Gap fill Hyperlast Part A 7850802 & Part B 2875046		0	0	0	0	0	0.6	0	0
58	Steridex		0	836	60	50.16	0	0.6	30	30
59	Syntactic Foam Resin (SER300, Crayamid 960Niax SC154)		0	1060	0	0	0	0.6	0	0
60	Trefrotex SF Bonding Coat Part A		224.5	925	0	0	0	0.6	0	0
61	Trefrotex SF Bonding Coat Part B		613	536	0	0	0	0.6	0	0
62	Trimite Ash Grey		0	1000	106.5	106.5	0	0.6	64	64
63	Trimite Q55X Air Dring Epoxy		491	519	0	0	0	0.6	0	0
64	Trimite S59 Light Admiralty Grey		0	1000	0	0	0	0.6	0	0
65	Trimite S59 Orange		0	1000	0	0	0	0.6	0	0
66	Trimite Stoving Enamel Finish S59 White		0	1000	0	0	0	0.6	0	0
67	Trimite Vellum Primer		610	495	0	0	0	0.6	0	0
68	Wessex WRA518		0	1235	24	29.64	0	0.6	18	18
69	Wessex WRA519 Primer		0	1000	75	75	0	0.6	45	45
70	Gummipaint		770	230	2	0.46	1.54	0.6	0	-1
71	Epidek L716		322	678	12	8.136	3.864	0.6	5	1
72	Interguard 269		225	775	170	131.75	38.25		0	-38
72	Interline 850		225	775	470	364.25	105.75		0	-106
72	Epigrip H795		575	482.6	5	2.413	2.875		0	-3

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	Amercoat No12	0.86	190	-163.4
2	Amercoat No65	0.87	35	-30.45
3	Acetone	0.787	0	0
4	Bostik 6009	0.7	0	0
5	Bostik M501	0.785	70	-54.95

6	International Equipment Cleaner	0.904	0	0
7	International thinner	0.852	0	0
8	Leighs No1 thinner	0.8	0	0
9	Leighs No3 thinner	0.9	0	0
10	Leighs No5 thinner	0.8	1500	-1200
11	Leighs No9 thinner	0.9	1884	-1695.6
12	Methyl-ethyl-ketone VWR International Ltd	0.805	0	0
13	Methylene chloride	1.32	16	-21.12
14	Phosphate solution	1	0	0
15	Propan-2-ol	0.79	0	0
16	Steridex	1.37	20	-27.4
17	T17 Thinners	0.8	0	0
18	T105 Thinners	0.9	0	0
19	Trimite ST59	0.866	25.75	-22.2995
20	Trimite ST60		0	0
21	Sigma No 91-92 Thinners	0.85	1553.75	-1320.6875
22	Corroless No 6 Thinner	0.87	60	-52.2

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)	24,104
Total solvent used in coatings (kg)	3,734
Total solvent used in thinners (kg)	4,588
Total solvent consumption (kg)	8,322
Mass of solvent disposed of (kg)	0
Target emission (kg)	14,163
Actual emission (kg)	8,322
Difference (kg)	5,841

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