

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	0.6
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Period Covered	1st Nov 2010-31st Oct 2011
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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 12 month 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	Amercoat 300 White		0	520	510	265.2	0	0.6	159	159
2	Amerlock 400c White		106	1299.5	5483	7125.16	581.198	0.6	4275	3694
3	Ameron 71		435	693.3	45	31.1985	19.575	0.6	19	-1
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	1.75	5.04	0	0.6	3	3
6	Belzona 2121 Elastomer		0	1150	0	0	0	0.6	0	0
7	Biogard M630 Pebble		0	884.8	290	256.592	0	0.6	154	154
8	Bostik 9252 Primer		690	280	135	37.8	93.15	0.6	23	-70

9	CANTL Hyperlast 2851245/2875044		0	2020	1590	3211.8	0	0.6	1927	1927
10	Chromate primer PR143		570	930	5	4.65	2.85	0.6	3	0
11	Cilcoat S260 Laquer		770	105	0	0	0	0.6	0	0
12	Cilrelease 400		810	90	3	0.27	2.43	0.6	0	-2
13	Corroless EPF		34	966	0	0	0	0.6	0	0
14	Corroless RF35		35	965	0	0	0	0.6	0	0
15	CTL2 Hyperlast 7980007/7855096		0	710	1080	766.8	0	0.6	460	460
16	Crystic 489 Resin		470	400	0	0	0	0.6	0	0
17	Drafil Hyperlast 7850925/7855096 *		0	710	1250	887.5	0	0.6	533	533
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	940	772.304	83.707	0.6	463	380
21	Envoy TF500		388	287	35	10.045	13.58	0.6	6	-8
22	Epidek M377		336	382	90	34.38	30.24	0.6	21	-10
23	Epigrip C425 Grey Phosphate primer		217	1121	1695	1899.85	367.815	0.6	1140	772
24	Epigrip C425 Off White Phosphate Primer		217	1121	100	112.085	21.7	0.6	67	46
25	Epigrip H735 Buff		282.75	1017.25	30	30.5175	8.4825	0.6	18	10
26	Epigrip H736 White		311.148	978.852	65	63.6254	20.2246	0.6	38	18
27	Epigrip J784 Rich Zinc Primer		418.938	2201.062	15	33.0159	6.28407	0.6	20	14
28	Epigrip L524 Aluminium & Grey		344.52	1005.48	258	259.414	88.8862	0.6	156	67
29	Epigrip M111		416	380	0	0	0	0.6	0	0
30	Epigrip M251 Buff		405.03	974.97	135	131.621	54.6791	0.6	79	24
31	Epigrip M253 Pebble		407.55	1022.45	40	40.898	16.302	0.6	25	8
32	Epigrip M262		386	450	90	40.5	34.74	0.6	24	-10
33	Epigrip M922 Grey & Black		170.289	1419.711	993	1409.77	169.097	0.6	846	677
34	Etch Primer K179 (K570)		732.4	167.85	0	0	0	0.6	0	0

35	Etch Primer PR30/TH43B		720	180	2	0.36	1.44	0.6	0	-1
36	Expocrete UA Epoxy Filler		0	1950	0	0	0	0.6	0	0
37	FIWA Sealant		0	1253	148	185.444	0	0.6	111	111
38	Flushing oil hyperlast 4162147 *		0	0	177	0	0	0.6	0	0
39	General Alkyd Gloss C530		385	785	110	86.35	42.35	0.6	52	9
40	Hard Substrate primer Type K Hyperlast 2874016 part A 2875039 part B (MDI) *		0	1410	2408	3395.28	0	0.6	2037	2037
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	Metagard G280		710.7	439.3	120	52.716	85.284	0.6	32	-54
43	Metagard L574 Red Oxide		621.96	578.04	1545.5	893.361	961.239	0.6	536	-425
44	Metaglo T75 Heat Resist Alum		427.284	562.716	0	0	0	0.6	0	0
45	Molykote 3402 anti-friction coating		707.4	372.6	0	0	0	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	3	2.73	0.03	0.6	2	2
49	Resistex M535		580	620	287.5	178.25	166.75	0.6	107	-60
50	Scotchcast 5136		900	100	6	0.6	5.4	0.6	0	-5
51	Sigmatherm 125 (H/R alum)		391.88	618.12	70	43.2684	27.4316	0.6	26	-1
52	Sigmatherm 500 (HR500 H/R alum)		600.27	469.73	5	2.34865	3.00135	0.6	1	-2
53	Sikaflex 221		45.5	1254.5	192	240.864	8.736	0.6	145	136
54	Silent Running SR 1000			1043	10	10.43	0	0.6	6	6
55	Soft Substrate 3M 5136 Scotchcast primer *		900	880	0.25	0.22	0.225	0.6	0	0
56	Spraylat E106 peelable protective coating		0	350	233	81.55	0	0.6	49	49
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	0	0	0	0.6	0	0
59	Syntactic Foam Resin (SER300, Crayamid 960Niax SC154)		0	1060	286	303.16	0	0.6	182	182

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	0	0	0	0.6	0	0
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	0	0	0	0.6	0	0
69	Wessex WRA519 Primer	0	1000	224	224	0	0.6	134	134
70	Gummipaint	770	230	1	0.23	0.77	0.6	0	-1
71	Epidek L716	322	678	4	2.712	1.288	0.6	2	0

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 12 month period	Mass of other solvent used (kg)
1	Amercoat No12	0.86	630	-541.8
2	Amercoat No65	0.87	850	-739.5
3	Acetone	0.787		0
4	Bostik 6009	0.7	0.5	-0.35
5	Bostik M501	0.785	127	-99.695
6	International Equipment Cleaner	0.904		0
7	International thinner	0.852		0
8	Leighs No1 thinner	0.8		0
9	Leighs No3 thinner	0.9	105	-94.5
10	Leighs No5 thinner	0.8	696	-556.8
11	Leighs No9 thinner	0.9	975	-877.5
12	Methyl-ethyl-ketone VWR International Ltd	0.805	5	-4.025
13	Methylene chloride	1.32	303.5	-400.62
14	Phosphate solution	1	43	-43
15	Propan-2-ol	0.79	15	-11.85
16	Steridex	1.37		0
17	T17 Thinners	0.8	5	-4
18	T105 Thinners	0.9		0
19	Trimite ST59	0.866		0

20	Trimite ST60			0
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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)	23,134
Total solvent used in coatings (kg)	2,919
Total solvent used in thinners (kg)	3,374
Total solvent consumption (kg)	6,293
Mass of solvent disposed of (kg)	0
Target emission (kg)	13,880
Actual emission (kg)	6,293
Difference (kg)	7,588

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