

# 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

Period Covered Nov 14 - Oct 15

## 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	445	300.82	2.67	0.6	180	178
2	Sigmacover 400		163	1190	4833	5751.27	787.779	0.6	3451	2663
3	Ameron 71					0	0	0.6	0	0
4	Ambersil Release					0	0	0.6	0	0
5	Belzona 111/1121					0	0	0.6	0	0
6	Belzona 2121 Elastomer					0	0	0.6	0	0
7	Biogard M630 Pebble		2	696.8	383.6	267.292	0.7672	0.6	160	160
8	Bostik 9252 Primer					0	0	0.6	0	0
9	CANTL Hyperlast 2851245/2875044					0	0	0.6	0	0
10	Chromate primer PR143					0	0	0.6	0	0
11	Cilcoat S260 Laquer					0	0	0.6	0	0
12	Cilrelease 400					0	0	0.6	0	0
13	Corroless EPF		0	1484.1	22.5	33.3923	0	0.6	20	20

14	Corroless RF35		0	1248	30	37.44	0	0.6	22	22
15	Crystic 489 Resin					0	0	0.6	0	0
16	Duralast 7859/086					0	0	0.6	0	0
17	Envirogard M770 Pebble		129	456.3	715	326.255	92.235	0.6	196	104
18	Envoy TF500		388	1449	81	117.369	31.428	0.6	70	39
19	Epidek M377		985.8	382	79	30.178	77.8782	0.6	18	-60
20	Epigrip C425		249	1155	2297	2653.04	571.953	0.6	1592	1020
21	Epigrip H735 Buff					0	0	0.6	0	0
22	Epigrip H736 White					0	0	0.6	0	0
23	Epigrip J984 Rich Zinc Primer		399	1624.4	25	40.61	9.975	0.6	24	14
24	Epigrip L524		344	864	2438	2106.43	838.672	0.6	1264	425
25	Epigrip M111					0	0	0.6	0	0
26	Epigrip M251 Buff					0	0	0.6	0	0
27	Epigrip M922M		179	1245	69	85.905	12.351	0.6	52	39
28	Epigrip M262		846	450	10	4.5	8.46	0.6	3	-6
29	Epigrip M922		167	1319.7	1023	1350.05	170.841	0.6	810	639
30	Leighs C530		385	785	265	208.025	102.025	0.6	125	23
31	Epigrip M671									
32	Mac Wax					0	0	0.6	0	0
33	Leighs G280		643	310.5	220	68.31	141.46	0.6	41	-100
34	Metagard L574 Red Oxide		621	578.04	1738	1004.63	1079.3	0.6	603	-477
35	Leighs T75					0	0	0.6	0	0
36	Molykote 3402 anti-friction coating					0	0	0.6	0	0
37	PR148 Promoter					0	0	0.6	0	0
38	PR1783 Sealant Deck Plates					0	0	0.6	0	0
39	Release agent R801					0	0	0.6	0	0
40	Resistex M535		572	423.5	55	23.2925	31.46	0.6	14	-17
41	Resistex M237		443	756	30	22.68	13.29	0.6	14	0
42	Sigmatherm 175 (H/R alum)					0	0	0.6	0	0
43	Sigmatherm 500 (HR500 H/R alum)					0	0	0.6	0	0

44	Sikaflex 221					0	0	0.6	0	0
45	Silent Running SR 1000					0	0	0.6	0	0
46	Soft Substrate 3M 5136 Scotchcast primer *					0	0	0.6	0	0
47	Spraylat E106 peelable protective coating	0	348.8	494	172.307	0	0	0.6	103	103
48	Sikagard 203-w (Steridex)	0	630.45	0	0	0	0	0.6	0	0
49	Syntactic Foam Resin (SER300, Crayamid 960Niax SC154)					0	0	0.6	0	0
50	Trefrotex SF Bonding Coat Part A					0	0	0.6	0	0
51	Trefrotex SF Bonding Coat Part B					0	0	0.6	0	0
52	Trimite P8000 (Powder Coating)	0	1600	2205	3528	0	0	0.6	2117	2117
53	Trimite Q55X	458	550	150	82.5	68.7	0	0.6	50	-19
54	Trimite Q50	420	550	5	2.75	2.1	0	0.6	2	0
55	Trimite S59					0	0	0.6	0	0
56	Trimite Stoving Enamel Finish S59 White					0	0	0.6	0	0
57	Trimite Vellum Primer					0	0	0.6	0	0
58	Wessex WRA518					0	0	0.6	0	0
59	Wessex WRA519 Primer					0	0	0.6	0	0
60	Intertherm 50	509	508.5	124	63.054	63.116	0	0.6	38	-25
61	Epidek L716	420	683.4	26	17.7684	10.92	0	0.6	11	0
62	Interguard 269	293	719.1	33	23.7303	9.669	0	0.6	0	-10
63	Interline 850	143	1193.2	60	71.592	8.58	0	0.6	0	-9
64	Epigrip H795	575	482.6	38	18.3388	21.85	0	0.6	0	-22

**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	5	-4.25
2	Leighs No.5	0.89	1535	-1366.15
3	Leighs No.9	0.84	1355	-1138.2
4	Corroless No.4	0.86		0
5	Corroless No.6	0.86	80	-68.8
6	Thinner 90-58	0.85	486	-413.1
7	Thinner 91-92	0.85	950	-807.5
8	Trimite ST59	0.9	125	-112.5
9				0

**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)	18,412
Total solvent used in coatings (kg)	4,157
Total solvent used in thinners (kg)	3,911
Total solvent consumption (kg)	8,068
Mass of solvent disposed of (kg)	0
Target emission (kg)	10,979
Actual emission (kg)	8,068
Difference (kg)	2,911

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