

Determination of Compliance with Reduction Scheme for Adhesives 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	1.2
Period Covered	1st Nov2011 - 31st Oct 2012

ADHESIVE 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	Araldite 2011 *		0	1000	30.0	30	0	1.2	36	36
2	Araldite 2014 *		0	1000	0.0	0	0	1.2	0	0
3	Bostik 1430		742	138	10.0	1.38	7.42	1.2	2	-6
4	Bostik 2402		671	209	61.5	12.8535	41.2665	1.2	15	-26
5	Bostik C		473	457	0.0	0	0	1.2	0	0
6	Conformal bond - Versalink P1000 part A & Supresec 2021 part B (MDI)		0	1220	0	0	0	1.2	0	0
7	Dow Corning White 784		42	998	151.24	150.938	6.35208	1.2	181	175

8	Dow Corning Clear 784		42	998	196.2	195.808	8.2404	1.2	235	227
9	ET - 10		750	500	0	0	0	1.2	0	0
10	Foster 30-36		500	500	0	0	0	1.2	0	0
11	Gripfil		360	840	0	0	0	1.2	0	0
12	Idenden 10-188		687.5	562.5	0	0	0	1.2	0	0
13	Loctite 222		691.2	388.8	1.4	0.54432	0.96768	1.2	1	0
14	Loctite 225		54	1026	0	0	0	1.2	0	0
15	Loctite 241		54	1026	0	0	0	1.2	0	0
16	Loctite 243		21.6	1058.4	1.6	1.69344	0.03456	1.2	2	2
17	Loctite 270		4.75	1080	14.9	16.092	0.07078	1.2	19	19
18	Loctite 406		31.5	1018.5	7.8	7.9443	0.2457	1.2	10	9
19	Loctite 415		32.7	1057.3	1.24	1.31105	0.04055	1.2	2	2
20	Loctite 454		31.5	1018.5	7.3	7.43505	0.22995	1.2	9	9
21	Loctite 495		33	1067	4.1	4.3747	0.1353	1.2	5	5
22	Loctite 496		33	1067	2.3	2.4541	0.0759	1.2	3	3
23	Loctite 542		32.4	1047.6	0.25	0.2619	0.0081	1.2	0	0
24	Loctite 572		54	1026	0.2	0.2052	0.0108	1.2	0	0
25	Loctite 574		54	1026	0.2	0.2052	0.0108	1.2	0	0
26	Loctite 601		33	1067	0.15	0.16005	0.00495	1.2	0	0
27	Loctite 2701		44	1056	1.9	2.0064	0.0836	1.2	2	2
28	Loctite 7061		760	40	267.6	10.704	203.376	1.2	13	-191
29	Sovereign PVA Adhesive		642	428	32	13.696	20.544	1.2	16	-4
30	Wessex UW44P3 Paints		0	2000	2.5	5	0	1.2	6	6
31	Wessex WRA4501 Adhesive		0	1580	0	0	0	1.2	0	0
32	Wessex WRA4601 Adhesive		0	1000	515	515	0	1.2	618	618

33	Devcon Aluminium Putty	0	1000	0	0	0	1.2	0	0
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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	Bostik 6009 cleaner	0.7		0
2	Bostik M501	0.88	232	-204.16
3	Desolvit FD1000	0.78	220	-171.6
4	Liquid neutraliser (in-house Chemist Lab)	0.99		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	Solvent in collected waste			0

SUMMARY OF COMPLIANCE WITH THE REDUCTION SCHEME

Total solids used (kg)	980
Total solvent used in adhesives (kg)	289
Total solvent used in cleaners (kg)	376
Total solvent consumption (kg)	665
Mass of solvent disposed of (kg)	0
Target emission (kg)	1,176
Actual emission (kg)	665
Difference (kg)	511

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