

Title: Virkon S – Stability in salt water

Author: MS

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Objective:

To compare the stability of Virkon S in salt water & tap water

Method:

Virkon S was prepared a solution in two solutions, one dissolved in artificial seawater, the other in hard water. Both prepared a 1% w/v to 5 litres, under laboratory conditions.

Artificial seawater prepared as described in BS2462: 1986 (containing 2.7% sodium chloride). Solutions were analysed at intervals over a period of 24 hours.

Results:

Sea water sample	pH (1%)	Available Oxygen (%)	Odour	Hard water sample	pH (1%)	Available Oxygen (%)	Odour
Initial	2.06	10.32	v.slight Chlorine		2.30	10.56	Lemon
1 hour	2.15	9.78	Increasing smell of Chlorine		2.31	10.56	“
2 hour	2.26	8.86	“		2.23	10.46	“
4 hour	2.26	7.16	“		2.43	10.52	“
8 hour	2.06	5.78	“		2.44	10.35	“
24 hour	2.03	2.84	“		2.44	10.28	“

Comments:

Antec International Limited

www.antecint.com
+44 (0) 1787 377305

Colour loss within the salt-water was becoming apparent within a few minutes of preparation.

Virkon S 1% solutions may be used in salt water, however more frequent replacement of the solutions is necessary. Based upon the above results, 2 hours from the time of preparation is recommended