UI SC 223 "For Application of SOLAS Regulation II-1/3-2 Performance Standard for Protective Coatings (PSPC) for Dedicated Seawater Ballast Tanks in All Types of Ships and Double-side Skin Spaces of Bulk Carriers, adopted by Resolution MSC.215(82)"

Part A. Revision History

Version no.	Approval date	Implementation date when applicable
Rev.1 (July 2010)	27 July 2010	1 July 2011
Corr.2 (Apr 2009)	14 Apr 2009	-
Corr.1 (July 2008)	10 July 2008	-
New (June 2008)	30 June 2008	1 July 2008

- **Rev 1 (July 2010)**

.1 Origin of Change:

☑ Other (Inquiry from industry)

.2 Main Reason for Change:

Questions have been raised by the industry about acceptance of equivalency of none zinc containing or not silicate based shop primers as defined by the IMO PSPC Table, Section 2.3.

After extensive discussion the Group agreed to apply the equivalency acceptance criteria given in the prequalification test alternative system in Appendix 1 and Appendix 2 to Annex 1 to MSC.215(82) Column B for such non zinc containing or not silicate based shop primers.

.3 List of non-IACS Member classification societies contributing through the TC Forum and/or participating in IACS Working Group:

None

.4 History of Decisions Made:

See .2 above

.5 Other Resolutions Changes:

None

.6 Dates:

Original Proposal: *14 June 2010 Made by the EG/Coating (Ref. 10078cECa)*

GPG Approval: *27 July 2010 (Ref: 10078cIGc)*

- **Corr. 2 (Apr 2009)**

Correction to SOLAS reference in the implementation statement (Ref. 8535gABa).

No TB document available.

- **Corr. 1 (July 2008)**

Correction of reference in Section 1.5 of Method B: 5 years field exposure (Ref. 8535bIGd).

No TB document available.

- **New (June 2008)**

New UI developed for the application of IMO PSPC, incorporating the contents of UI SC222 “Stripe coats and salt measurement”.

No TB document available.

Part B. Technical Background

List of Technical Background (TB) documents for UI SC223:

Annex 1. **TB for Rev.1 (July 2010)**

See separate TB document in Annex 1.

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Note: There are no separate Technical Background (TB) documents for New (June 2008), Corr.1 (July 2008) and Corr.2 (Apr 2009).

Technical Background for UI SC223 Rev.1, July 2010

1. Scope and objectives

To revise UI SC223 to include a unified interpretation (UI) on the meaning of the term 'equivalency' for zinc containing inhibitor free zinc silicate based shop primers as defined by Section 2.2 of Table I under 2.3 of the IMO Res. MSC.215(82) Annex I known as the IMO PSPC Performance Standard for ballast tanks.

To find mutual agreement on the interpretation of the wording 'or equivalent' for zinc containing inhibitor free zinc silicate based shop primers as defined by the IMO PSPC Table 1, Section 2 under 2.3

2. Engineering background for technical basis and rationale

Table 1, Section 2 under 2.3 of the IMO PSPC specifically defines 'Zinc containing Inhibitor Free Zinc Silicate based shop primers' to be used or equivalent. Some IACS Members are of the opinion that Epoxy based, zinc or non-zinc containing shop primers can be considered equivalent. Other IACS Members are of the opinion that the zinc silicate based shop primers can not be considered equivalent to epoxy based shop primers.

Inherently, according to Section 8 of the IMO PSPC, acceptance of 'equivalency' or not, determines whether or not coatings shall be considered 'alternative systems' which have to meet the acceptance criteria in right columns of tables in Appendix 1 and Appendix 2 to Annex 1 to the IMO PSPC.

3. Source/derivation of the proposed IACS Resolution

IMO PSPC Table 1, Section 2 under 2.3
IACS UI SC223
IACS PR 34

4. Summary of Changes intended for the revised Resolution

Interpretation on the acceptance criteria given in the pre-qualification test alternative system in appendix 1 to MSC.215 (82) (so called column B) for accepting non-zinc-silicate shop primer was produced.

5. Points of discussions or possible discussions

1. At initial discussion, five members (i.e., CCS, GL, IRS, NK and RS) considered that so far as the shop primer passes the acceptance criteria given in the pre-qualification test for epoxy based system in Appendix 1 to MSC.215 (82) (so called column A); the other members considered that any system not based on "Zinc" and then "Silicate" would not be qualified to use this criterion as such product is apparently inferior to the zinc-silicate shop primer.

2. In this regard, the Group noted the definition of "equivalents" given in SOLAS regulation I/5, i.e., "at least as effective as that required by the present regulations".
3. Another discussion the Group had was the way to provide clearer criterion on the equivalency.
4. General view of the Group was that, while a shop primer (e.g., an Epoxy-iron based shop primer in this instance) may pass the pre-qualification test, a zinc-silicate shop primer is more durable than an epoxy-iron based shop primer.
5. After extensive discussion, the Group agreed to apply the acceptance criteria given in the pre-qualification test alternative system in Appendix 1 and Appendix 2 to MSC.215 (82) (so called column B) for accepting non-zinc-silicate shop primer.

6. Attachments if any

None