



## *Confirmation of Product Type Approval 11/JAN/2012*

Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product.

This is to certify that, pursuant to the Rules of the American Bureau of Shipping (ABS), the manufacturer of the below listed product held a valid Manufacturing Assessment (MA) with expiration date of 13/DEC/2016. The continued validity of the Manufacturing Assessment is dependent on completion of satisfactory audits as required by the ABS Rules.

And; a Product Design Assessment (PDA) valid until 25/JUL/2016 subject to continued compliance with the Rules or standards used in the evaluation of the product.

The above entitle the product to be called Product Type Approved.

The Product Design Assessment is valid for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

### BLUE SEAL INC.

Model Name(s): Blue Seal 1357T / 1117T

**Presented to:**

BLUE SEAL INC.  
1102-B3 BONNEVILLE AVE.  
SNOHOMISH  
United States

**Intended Service:**

The Blue Seal 1357T / 1117T coating system may be used as a protective coating for dedicated seawater ballast tanks in all type of ships and double-side skin spaces in bulk carriers. For applications requiring coating approval in accordance with IMO PSPC use over suitably prepared bare steel in compliance with IMO PSPC requirements as minimum.

**Description:**

The Blue Seal 1357T / 1117T coating system is a two-part glass-filled elastomer-modified epoxy-vinyl -ester coating system

**Ratings:**

Compliance if the subject coating system with IMO PSPC [MSC 215(82)] requirements has been verified by review of EXOVA report reference No, N953185 dated 10 March 2011 indicating that the test of Blue Seal 1357T / 1117T was performed in accordance with the test procedures referred to in IMO PSPC Appendix 1 & Appendix 2. As subject glass-filled elastomer-modified epoxy-vinyl-ester coating system is not used over a zinc silicate based primer as required by the PSPC Table 1 section 2.3, the enhanced acceptance criteria for alternative systems was applied as required by the PSPC Section 8.4 and provided by the right columns of the acceptance criteria Table of the PSPC Appendix 1 and 2.

**Service Restrictions:**

Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined. (1). The manufacturer must have a certified quality management system and be under the appropriate product quality assurance (PQA) category. (2). For each batch manufactured for marine use, the manufacturer is required to

issue an affidavit declaring conformity with type approval that is co-signed by the laboratory. (3). The manufacturer is responsible for identifying all containers in the batch with some form of permanent marking. (4). The manufacturer can download the confirmation of type approval from the ABS website at [www.eagle.org](http://www.eagle.org) which would be considered equivalent to a type approval certificate or statement of compliance as mentioned in MSC 215(82). (5). If the manufacturer wants to subcontract the process, the secondary company is to be given a secondary PDA and is required to do a type test of the product as part of its enrollment in PQA. (6). The approved product is solely related to the corrosion protection properties of the subject coating system as per IMO PSPC and is not relevant to the evaluation of the toxicity, flammability and polluting properties of the product.

**Comments:** This assessment was not conducted on behalf of any administration. The subject coating system is to be applied in accordance with the IMO PSPC standard and/or the requirements provided by the applicable manufacturer's datasheets, whichever is stricter. This coating system has been identified by infrared scanning, be determination of specific gravity, and by determination of volatile/non-volatile content.

**Notes / Documentation:** Supporting Documentation: Test Procedures for Coating Qualification No. N953185 Rev. 0 dated 3 Oct. 2011 (22 shts); Northwest Laboratories of Seattle, Inc Lab No E84191 dated 28 Jul. 2010 - Intertek Test Report Data, IPTL# P20100407 dated 12 Mar. 2010 (13 shts).

**Term of Validity:** This Product Design Assessment (PDA) Certificate 11-HS523653-PDA, dated 26/Jul/2011 remains valid until 25/Jul/2016 or until the Rules or specifications used in the assessment are revised (whichever occurs first). This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product. Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA. Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

**ABS Rules:** 2011 Steek Vessels Rules1-1-4/7.7, 1-1-Appendix 3. 2007 ABS Guidance Notes of the Inspection, Maintenance and Application of Marine Coating System.

**National Standards:**  
**International Standards:** IMO Resolution MSC 215(82) referred to as IMO PSPC, IACS PR34, IACS UI SC223.

**Government Authority:**  
**EUMED:**  
**Others:**

Model Certificate	Model Certificate No	Issue Date	Expiry Date
PDA	11-HS523653-PDA	26/JUL/2011	25/JUL/2016



ABS Programs

ABS has used due diligence in the preparation of this certificate and it represents the information on the product in the ABS Records as of the date and time the certificate was printed. Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. Limited circumstances may allow only Prototype Testing to satisfy Type Approval. The approvals of Drawings and Products remain valid as long as the ABS Rule, to which they were assessed, remains valid. ABS cautions manufacturers to review and maintain compliance with all other specifications to which the product may have been assessed. Further, unless it is specifically indicated in the description of the product; Type Approval does not necessarily waive witnessed inspection or survey procedures (where otherwise required) for products to be used in a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS. Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.