



## *Confirmation of Product Type Approval 05/AUG/2009*

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 17/MAY/2012. 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 13/DEC/2011 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.

### ADVANCED POLYMER COATINGS, LTD.

Model Name(s): MarineLine 784

**Presented to:**

ADVANCED POLYMER COATINGS, LTD.  
951 Jaycox Road  
P.O.Box 269  
AVON  
United States

**Intended Service:**

The coating is applied to the internal surfaces of bulkheads, deck and shell plating, framing, girders and stiffeners, brackets, expansion trunks, ladders and ladder rungs and all other internal structures and fittings of cargo tanks, chemical storage tanks and tank containers as required.

**Description:**

Two-component polymer coating MarineLine (Siloxirane)

**Ratings:**

See attached "pdf".

**Service Restrictions:**

Unit Certification is not required for this product. If the manufacturer or purchaser's request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined. This product is not to be applied in areas where people work or live per Regulation 6 of Chapter II-2 of SOLAS (as amended). Apply when the air and surface temperatures are above 10° C. The relative humidity inside the tanks must be kept at 70% or lower. The substrate temperature should be at least 3° C (5° F) above the dew point and rising. For optimum application properties, bring material to 21-30° C (66-80° F) prior to mixing and application.

**Comments:**

1) This coating has been type approved as complying with the identified standard. Proper application in accordance with the manufacturer's instruction is needed which should reflect the application of the test cases used to determine compliance. ABS EXPRESSLY DISCLAIMS ALL WARRANTIES WITH RESPECT TO THE COATING AND THE DESIGN ASSESSMENT, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR

**PURPOSE.** The successful coating is dependent on coating properties (some of which may not have been addressed in the approval standard), proper application (including surface prep, application, curing environment, etc.) and proper maintenance. These aspects are beyond the scope of this type approval. 2) The compatibility information is to be provided to a ship yard per Chapter 6 of IBC Code (2004).

**Notes / Documentation:**

1) B.F. Goodrich Chemical Company, Project No. 3706-515-22-141, 13 May 1994.  
2) Heron Testing Laboratories, Inc., File No. 950901395, Report Date 19 September 1995. This Product Design Assessment (PDA) is valid only 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.

**Term of Validity:**

This Design Assessment Certificate number 06-HS154871-PDA, dated 14/Dec/2006 will expire on 13/Dec/2011 or at an earlier date should there be alterations to the product's design or changes to the referenced ABS Rules and other specifications, which affect the product. Product use on or after 1 January 2007, will be subject to compliance with the ABS Rules or specifications in effect when the vessel, MODU or facility is contracted. The product's acceptability on board ABS-classed vessels or facilities is defined in the service restrictions of this certificate.

**ABS Rules:**

2006 Steel Vessel Rules 1-1-4/7.7, 3-2-18/5.1

**National Standards:**

ASTM D522, ASTM D538, ASTM D543, ASTM D570, ASTM D695, ASTM D790, ASTM D2583, ASTM D2794, ASTM D4060-90, ASTM D4541

**International Standards:**

2004 IBC Code - Chapter 6

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

Manufacturer's Standards



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.