

ΕΛΛΗΝΙΚΟΣ ΝΗΟΓΝΩΜΩΝ  
HELLENIC REGISTER OF SHIPPING

822/96/AVK

TYPE APPROVAL CERTIFICATE

This is to certify that, on the basis of the documentation submitted and the satisfactory long time performance on several Marine applications the following products are acceptable for use on ships classed or intended to be classed with HELLENIC REGISTER OF SHIPPING:

Manufacturer's Name : PHILADELPHIA RESINS CORPORATION  
Description of products : POURABLE CHOCKING COMPOUNDS  
Type : CHOCKFAST ORANGE PR610 TCF

Data Submitted : 1. CALCULATION & INSTALLATION INSTRUCTIONS  
2. EXPERIENCE BASED ON A LIST OF APPLICATIONS  
3. TYPE APPROVAL CERTS FROM OTHER CLASSIFICATION SOCIETIES  
4. MANUFACTURER CERTIFICATION TO ISO 9002 STANDARD

Application/limitation of use:

The above product is acceptable for use in the following applications:

- Propulsion Engines & Gearboxes
  - Deck & auxiliary machinery
  - Sterntube assemblies
- according to Manufacturers Technical Bulletin No.692A.

Maximum permitted chock stress as follows:

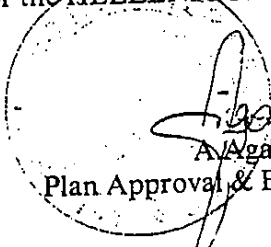
Temperature (°C)	Stress (kg/cm <sup>2</sup> )
90° C	23.75
80° C	45
70° C	60
60° C	71.75
50° C	81.2
40° C	88.75
30° C	95.8
20° C	102.5

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- Chocking plan with boltstress calculation to be submitted for approval in each particular case.
- The acceptance of installation on board is subject to the Surveyor's satisfaction.
- This certificate may be withdrawn in case of changes in design not brought to the knowledge of HRS or in case of changes of HRS rules.
- This certificate is valid until 19th December 2001.

Piraeus, 20th December 1996  
For the HELLENIC REGISTER OF SHIPPING

  
*A. Agapakis*  
A. Agapakis  
Plan Approval & Eng. Division Director

# ΕΛΛΗΝΙΚΟΣ ΝΗΟΓΝΩΜΩΝ

## HELLENIC REGISTER OF SHIPPING

1224/02/RCT

### TYPE APPROVAL CERTIFICATE

This is to certify that, on the basis of the documentation submitted and the satisfactory long time performance on several Marine applications the following products are acceptable for use on ships classed or intended to be classed with HELLENIC REGISTER OF SHIPPING:

Manufacturer's Name : PHILADELPHIA RESINS CORPORATION  
 Description of products : POURABLE CHOCKING COMPOUNDS  
 Type : CHOCK FAST ORANGE PR610 TCF

Data Submitted : 1. CALCULATION & INSTALLATION INSTRUCTIONS  
 2. EXPERIENCE BASED ON A LIST OF APPLICATIONS  
 3. TYPE APPROVAL CERTS FROM OTHER CLASSIFICATION SOCIETIES  
 4. MANUFACTURER CERTIFICATION TO ISO 9002 STANDARD

Application/limitation of use:

The above product is acceptable for use in the following applications:

- Propulsion Engines & Gearboxes
  - Deck & auxiliary machinery
  - Sterntube assemblies
- according to Manufacturers Technical Bulletin No.692A.

Maximum permitted chock stress as follows:

Temperature (°C)	Stress (kg/cm <sup>2</sup> )
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**ΕΛΛΗΝΙΚΟΣ ΝΗΟΓΝΩΜΟΝ**  
**HELLENIC REGISTER OF SHIPPING**

1224/02/RCT

- Chocking plan with boltstress calculation to be submitted for approval in each particular case.
- The acceptance of installation on board is subject to the Surveyor's satisfaction.
- This certificate may be withdrawn in case of changes in design not brought to the knowledge of HRS or in case of changes of HRS rules.
- This certificate is valid until *1<sup>st</sup> February 2007*.

Piraeus, 1<sup>st</sup> February 2002  
For the **HELLENIC REGISTER OF SHIPPING**



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Symvoulides  
& King, Division Director