

**MARINE DIVISION**  
17 Bis Place des Reflets - La Défense 2  
92400 Courbevoie - France  
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Certificate N°:  
09228/A0 BV  
The attached Schedule forms part of the certificate  
File Number : ACM 198/1601/003  
Product Code : 0013H

**BUREAU  
VERITAS**

## CERTIFICATE OF TYPE APPROVAL

*This is to certify that the product identified below was found to be in compliance with the relevant hereunder stated Regulations & standards*

### POURABLE COMPOUNDS FOR STERN TUBE CHOCKING PR 620 TS CHOCKFAST ORANGE

MANUFACTURED BY:

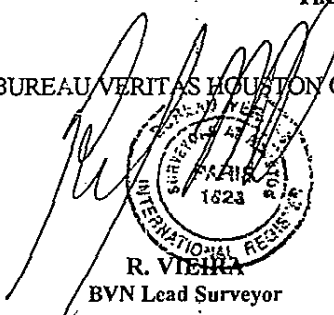

**ITW PHILADELPHIA RESINS CORPORATION**  
Montgomeryville - UNITED STATES OF AMERICA


SPECIFIED REGULATIONS & STANDARDS :  
BUREAU VERITAS Rules for the Construction and the Classification of Ships.

The Approval is valid until : 12/23/2004

BUREAU VERITAS HOUSTON CENTRE

At Paris la Défense, on : 12/23/99

  
  
**R. VIEIRA**  
BVN Lead Surveyor

  
**J. BENOIT**  
For the Secretary

This Certificate remains valid until the date stated on, hereunder, unless cancelled or revoked, provided the conditions in the attached schedule are complied with and the equipment remains satisfactory into service.  
This Certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested.  
This Certificate is not valid without the stamp of the above mentioned by BUREAU VERITAS Inspection Center.  
The manufacturer should notify BUREAU VERITAS of any modification or changes to the equipment in order to obtain a valid Certificate.  
The latest published Regulations or Standards referred to, above, and the Marine Division General Conditions are applicable.



**BUREAU  
VERITAS**  
MARINE DIVISION

File Number : ACM 198/1601/003

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION :

Chockfast Orange PR 620 TS: Compound especially intended for chocking of large equipments which require importante volume of it (i.e. stern tubes of propellershafts with diameter higher than 200 mm)..

### 2. DESIGN DRAWINGS and/or SPECIFICATIONS

As per Manufacturer's technical data.

### 3. TYPE TEST REPORTS / LABORATORY RECOGNITION STATUS

Following tests have been carried out:

- \* BARCOL Hardness,
- \* Thickness resistance (ASTM D 63868),
- \* Compression resistance (ASTM D 695637),
- \* Elasticity modulus (ASTM D 695637),
- \* Shore hardness (ASTM D 1706.61),
- \* Thermal shock (ASTM D 746.64),
- \* Fire resistance ( US Fed. Standard 2021)

under the supervision of CETEC / DCN CHERBOURG (FRENCH NAVY Plastic and Polymer Lab.)

### 4. MATERIALS and/or COMPONENTS REQUIRED TO BE TYPE APPROVED

Nil.

### 5. OTHER MATERIALS and/or COMPONENTS

Nil.

### 6. APPLICATION / LIMITATION OF USE

The pressure on the chocks is not to exceed the following values:

- pressure due to motor- or reduction gear- or the propeller shaft weight: 0.7 MPa.
- maximum total pressure depending on the maximum allowable temperature.

### 7. PRODUCTION SURVEY REQUIREMENTS

The working up of this product is to be carried out under supervision of the Manufacturer or a qualified Agent.

### 8. ON BOARD INSTALLATION & MAINTENANCE REQUIREMENTS

- A calculation note will be submitted for each application.
- Bolts are to be broken and their strain checked after trials (maximum of 200 hours of working).

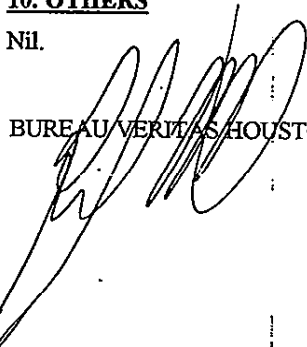
**9. MARKING FOR IDENTIFICATION**

Packaging are to be marked, at least, with:

- Maker's name,
- Type of product,
- Manufacturing and expiry dates,
- Stocking conditions,
- Precautions of use.

**10. OTHERS**

Nil.

  
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