



# Type Approval Certificate

Germanischer Lloyd

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No. 40 508 - 01 HH

Company ITW Philadelphia Resins  
130 Commerce Drive  
Montgomeryville, PA 18936, USA

Product Description Pourable compound (resin and hardener) for chocking of propulsion plants and auxiliary machinery

Type PR610TCF (Chockfast orange)

Environmental Category None

Technical Data / Range of Application Surface pressure exerted on Cast Resin chocks caused by dead weight of machinery and bolt preloading force: max. 4.5 N/mm<sup>2</sup>.

Surface pressure exerted on Cast Resin chocks caused by dead weight of machinery: max. 0.7 N/mm<sup>2</sup>.

Temperature in way of Cast Resin chocks: max. 80°C.

Barcol hardness of Cast Resin chocks: min. 35.

Height of Cast Resin chocks: 10 to 100 mm (pouring in one layer is permitted).

Test Standard GL "Regulations for the Approval and Application of Composite Materials (Reaction Resins) for Repair and Seating of Components"

Documents "CHOCKFAST Chocking Procedure" / Report No. U 097-95 / Technical Bulletin No. 693A (Hardener Ratio Guide) approved with GL Ref.-No. 55540/95 dated 1995-06-30.  
GL Type Approval Certificate No. 99827 HH dated 1998-06-29.

Remarks Special conditons / restrictions acc. to page 2 of Certificate.  
General conditions acc. to GL "Regulations for the Seating of Propulsion Plants".

Valid until 2006-06-30

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Type Approval Symbol



File No. II.G.12

Hamburg, 2001-06-27

Germanischer Lloyd

C. Heider

G. Ondrej

This certificate is issued on the basis of "Regulations for the Performance of Type Tests, Part 0, Procedure"

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Projection





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- 1.- For mixing and processing of the Cast Resin the manufacturer's instructions have to be observed. Pouring has to be carried out under supervision of the Cast Resin manufacturer or an authorized representative.
- 2.- Of each batch (resin and hardener) which is employed for Cast Resin seating, a sample has to be taken on board and has to be marked accordingly.
- 3.- For mounting, locating and attachment of the components, the latest edition of GL "Regulations for the Seating of Propulsion Plants" has to be observed.
- 4.- After hardening of the Cast Resin chocks and prior to tightening of the holding-down bolts a Barcol hardness test has to be performed in each case under supervision of the local GL Surveyor.
- 5.- A sign plate has to be fitted on the machinery seated on Cast Resin chocks indicating the name of the used Cast Resin type, the name of the responsible firm, the date of pouring and the tightening torque of the holding-down bolts and/or data on which the bolt prestressing has been based.
- 6.- The representatives authorized by the Cast Resin manufacturer to perform foundation work have to be stated to GL Head Office in writing including name list of the responsible persons.
- 7.- Seating of propulsion plants on Cast Resin chocks with the primary components as Diesel engines, turbines, generators for propulsion, gear boxes, power-take-off drives, thrust bearings, shaft bearings, shaft generators, stern tubes, steering gears and windlasses is subject to approval by Germanischer Lloyd Head Office in any case. To this effect, drawings and calculations acc. to GL "Regulations for the Seating of Propulsion Plants" have to be submitted to GL Head Office for approval exclusively by the Cast Resin manufacturer or an authorized representative.
- 8.- Seating of auxiliary machinery on Cast Resin chocks is to be performed on the basis of the afore-mentioned conditions without Germanischer Lloyd Head Office having to be informed.

This Type Approval Certificate may be withdrawn if decided by GL Head Office or upon its expiry. GL Head Office is to be informed in writing about any changes in manufacturing, mixing, processing, conditions of application and authorized representatives.

Valid until 2006-06-30

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Type Approval Symbol



File No. II.G.12

Hamburg, 2001-06-27

Germanischer Lloyd

C. Hadler

G. Ondrej

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