



DET NORSKE VERITAS

TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. K-2771

This Certificate consists of 3 pages

This is to certify that the
Coatings


with type designation(s)
EASY PRIME/EASY FLEX

Manufactured by
Royal Chemical Corporation
Gretna LA 70054, United States

is found to comply with
Det Norske Veritas' Type Approval Programme 1-602.1, 1999, Protective Coating Systems

Application
For use in ballast tanks, void spaces, etc. on newbuildings and ships in operation. Surface preparation, application and film thickness: As per manufacturer's recommendation.


Place and date
Høvik, 2005-09-12
for DET NORSKE VERITAS AS


John Olav Nøkleby
Head of Section



Local Office
DNV New Orleans

This Certificate is valid until
2009-06-30


Philippe Noury
Surveyor

Notice: This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



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Product description

EASY PRIME; Epoxy based primer coating, plus
EASY FLEX; Epoxy based intermediate/topcoat, applied in 2 coats.

Application/Limitation

The approval is valid for use of the coating in newbuildings and ships in operation.

Reapplication is to be carried out when necessary for adequate corrosion protection, at intervals depending on type of service.

Requirement for annual survey of ballast tanks coated with the EASY PRIME/EASY FLEX system can be waived by the attending surveyor provided the following conditions are met:

- examination of ballast tanks including thickness measurements, if deemed necessary, is carried out by the attending surveyor with satisfactory results before application of the coating
- structural repairs, if deemed necessary by the surveyor, are carried out with satisfactory results before application of the coating
- steel surface preparation, coating application and film thickness are in accordance with the coating manufacturer's instructions.

The approval is solely concerned with corrosion protection and does not include any evaluation of toxicity, pollution, contamination or fire properties.

Type Approval documentation

1. Previous Type Approval Certificate no. K-2029.
2. Fax with Renewal of Type Approval Certificate from DNV New Orleans dated 2005-06-28.

Tests carried out

Type Testing carried out according to **Type Approval documentation**.

Marking of product

Product shall be marked with *manufacturer's name*; **Royal Chemical Corporation**, and *type designation*.



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Certificate Retention/Renewal Survey

The scope of the Retention/Renewal Survey is to verify that the conditions stipulated for the Type Approval is complied with and that no alterations are made to the product design or choice of materials.

Survey to be performed after two (2) years (Certificate Retention Survey) and at renewal after four (4) years (Certificate Renewal Survey).

The main elements of the survey are:

- Ensure that **Type Approval documentation** is available.
- Review design, materials, production process, and performance with respect to possible changes, in order to ensure compliance with **Type Approval documentation** and/or referenced material specifications.
- Ensure traceability between manufacturer's product marking and the DNV Type Approval Certificate.

END OF CERTIFICATE