



# IMO PSPC testing and certification of ballast water tanks

## The one-stop coating specialists

### A challenge to your business

Since ballast water tanks are a critical area in corrosion terms, efficient coating is essential in improving a ship's safety and profitability. That is crucial for your business – and that is why Germanischer Lloyd (GL) was the first classification society to take coating certification seriously. Now the International Maritime Organization (IMO) has adopted a Performance Standard for Protective Coatings (PSPC). This new coating standard applies to ballast water tanks on all types of new buildings and aims to further improve internationally harmonized protective coating conditions.



Digital measurement and temperature control for reliable results

### The solution you need

The GL CeCo Series (Certification of Coatings) has been especially developed to certify coatings and coating systems. GL CeCoBW is the certificate that proves a manufacturer's ballast water tank coating system complies with the IMO PSPC requirements.

Coating systems must be pre-qualified in a laboratory test before they are applied. The test procedures are divided into three parts: a wave tank test that simulates conditions in a pitching and rolling seawater ballast tank; a dry heat test that simulates boundary conditions between heated bunker and ballast tanks; and a panel test in a condensation chamber. Each test is carried out for 180 days at GL's own laboratory in Hamburg, which is equipped with state-of-the-art systems for these and a variety of additional coating systems tests. This ensures close cooperation in the testing process and evaluation of findings, and makes GL your one-stop shop for testing, type approval and certification.

## GL – your best partner

Why turn to GL for IMO PSPC testing and certification? Quite simply because GL was the first classification society to give coating certification the top priority it deserves.

As a pioneer in this field, we can point to unparalleled experience and expertise in ballast water tank coating systems:

- Accredited laboratory according to ISO 17025
- Well trained laboratory staff
- One competent person to turn to at GL
- Fast and well organized handling of testing procedure



Constant data filing and control for sustainable results

## Benefits that make all the difference

- Competitive advantage in selling coating systems to your customers through GL type approval
- GL's excellent reputation for maritime safety and quality goes back to 1867
- GL's many years of experience in the approval of coatings and coating systems
- Access to our web-based database of certified coating systems
- Good cooperation between GL Coating Experts and well known Research Institutes



High-quality test equipment provided by GL

### One-stop shopping at GL

Why not save yourself time and money by benefiting from GL's one-stop shop – testing, type approval and certification from a single maritime specialist! In addition, GL offers training courses for certified coating inspectors, details of which are outlined below.

#### Training course for certified coating inspectors

**Content:** The new IMO Performance Standard for Protective Coatings (PSPC) requires the complete coating process in ballast water tanks of newbuildings to be inspected and documented by qualified and certified coating inspectors. The module is designed especially for the maritime industry in order to train and certify coating inspectors in accordance with this standard and to provide thorough knowledge about coatings and coating processes in general. The training course is supported by interactive case studies. A substantial part of the seminar takes the form of a hands-on training in a workshop where practical tests and inspections are carried out. Successful participation is verified by an examination.

**Emphasis:** Corrosion, coating systems, surface preparation and coating application, inspection procedures and test standards, content of the coating standard (IMO PSPC), health, safety and environment (HSE), practical work

**Advantages:** International recognition of the coating inspection qualification and certificate; upon successful completion of the course, participants will be able to inspect, measure and assess coatings and coating application processes; and establish and maintain the required official ship's Coating Technical File (CTF).

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