

# PPG PHENGUARD® 985

The premium phenolic epoxy tanklining that sets a new standard in expanded chemical resistance.

Designed to amplify cargo opportunities and reduce installation costs, this tank coating provides two or three coat flexibility and a high DFT allowance.



PPG PHENGUARD® 985

# Premium phenolic epoxy tanklining that delivers expanded chemical resistance

PPG PHENGUARD 985 is the latest addition to the successful PHENGUARD range of tanklinings; the trusted choice of professionals for over 50 years.

Building on this unique heritage, PPG PHENGUARD 985 utilizes a patent pending formulation that can be confidently applied in two or three coats without compromising on the chemical resistance.

Designed to deliver extremely high chemical resistance to a wide range of aggressive cargoes, including a higher temperature resistance for those that contain fatty acids, this new premium phenolic epoxy tanklining represents a significant breakthrough in coating technology.

In an increasingly competitive operating environment, PPG PHENGUARD 985 allows owners/operators the ability to reduce tanklining application and servicing costs whilst at the same time maximizing their cargo carrying and charter opportunities.

## PPG PHENGUARD 985 delivers:

### Improved performance

Market-leading cargo resistance and improved barrier to fatty acids at elevated temperatures.

### Flexibility & robustness

Excellent performance with two or three coat application. Enhanced formulation with outstanding application characteristics.

### Health & safety

Improved health and safety aspects via reduction in use of substances of concern.





## Improved performance

### Market-leading cargo resistance and significantly improved temperature window

PPG PHENGUARD 985 has been engineered to deliver outstanding chemical resistance to thousands of chemicals. Its particular value is in the protection it offers to over 300 different cargoes that are comprised by, or contain, fatty acids.

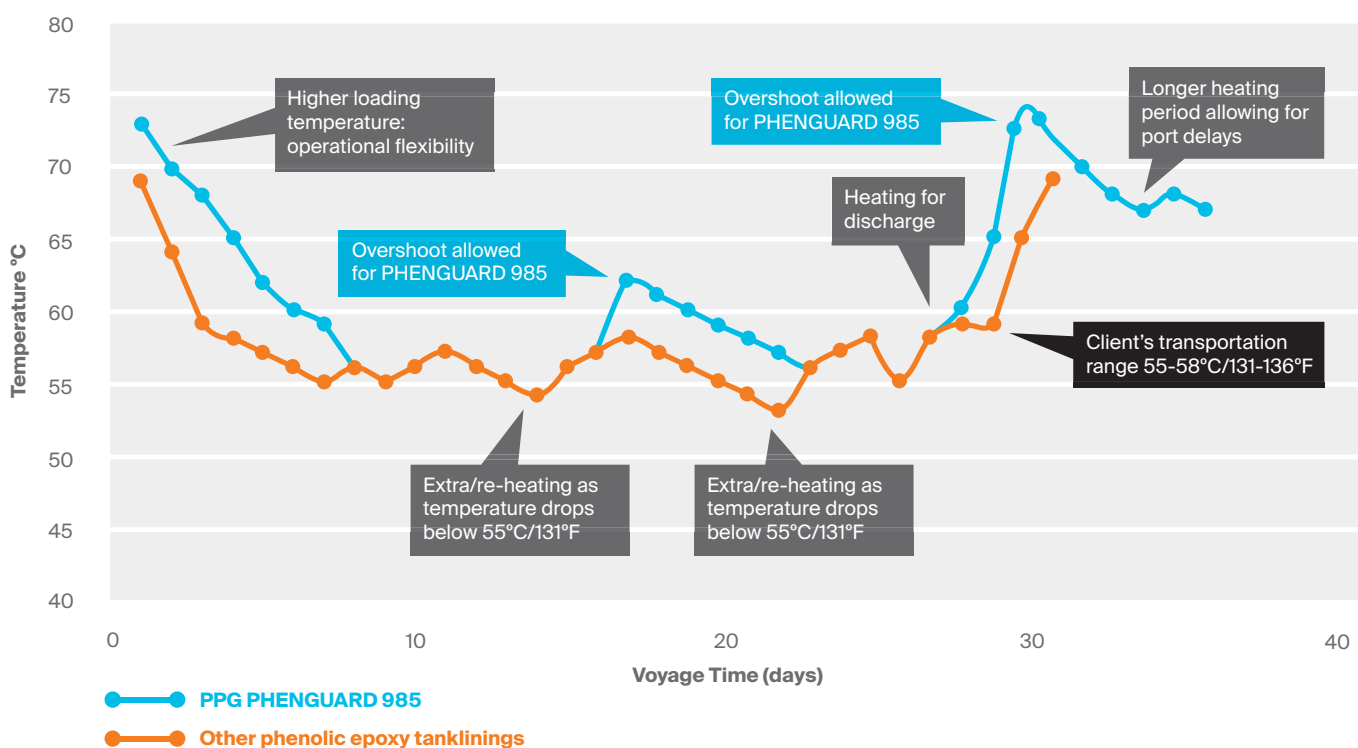
These highly aggressive cargoes\* can cause problems for operators as the temperature window they are required to be stored at can be narrow (max 60°C/149°F) and difficult to manage.

As a result, temperature overshoots are a regular risk and can jeopardize the efficacy of an operators tanklining leading to additional expense.

To combat this issue, PPG PHENGUARD 985 has been specifically designed to accommodate an extended temperature window for fatty acid distillates and similar cargoes.

Operators can confidently allow tank temperatures of up to 65°C/149°F during a voyage, and if required, a loading or discharge temperature of up to 70°C/158°F can be allowed for ten days per voyage and up to 75°C/167°F for a maximum of two days.

### Possible Cargo Temperatures



\* in case of successive loadings of aggressive cargoes please consult with your PPG sales contact.

# Outstanding application flexibility - improved robustness in two or three coats

The unique formulation of PPG PHENGUARD 985 allows owners/operators and their painting contractors the flexibility to apply either two or three coats whilst having full confidence in the end result.

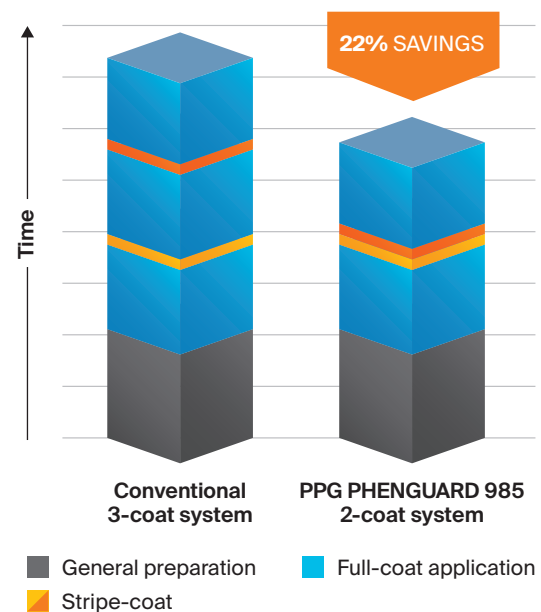
Customers choosing a two-coat solution (up to  $2 \times 160\mu\text{m}$ / 6.3 mils) are now able to benefit from a higher dry film thickness allowance of readings up to  $800\mu\text{m}$ /31.4 mils (in complex areas due to over-application).

As well as the initial saving on application cost gained by moving to a two-coat solution, this higher thickness tolerance also reduces the need for costly rework and additional dry dock time in case of over-application by painters.

In tests and real world application examples, it has been noted that dry dock time can be reduced by up to 22% by using a two-coat solution - a significant saving in time and cost.

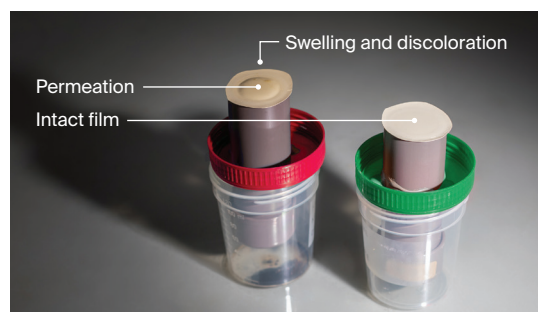
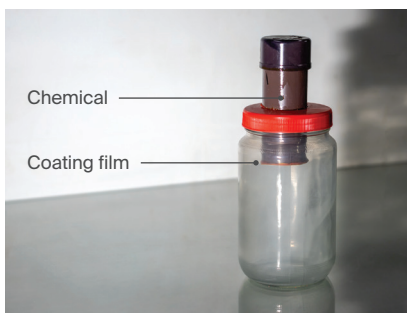
With PHENGUARD 985 it is possible to undertake a hot cure procedure at any time after the initial cure. It is recommended to complete it as soon as possible after the initial cure to provide immediate maximum cargo flexibility.

## Reducing your application time



## PPG PHENGUARD 985 - unrivalled protection from fatty acids

### Fatty acid resistance test



**Failed**  
After 14 days at  $70^{\circ}\text{C}/158^{\circ}\text{F}$  with other phenolic epoxy tanklining.



**Pass**  
After 14 days at  $70^{\circ}\text{C}/158^{\circ}\text{F}$  with PPG PHENGUARD 985.







PPG PHENGUARD® 985

# Improved formulation that enhances health & safety

PPG takes responsibility for minimizing the human health and environmental impact of our products throughout their entire life cycle. Accordingly, we use a concerted and disciplined approach to develop sustainable products and processes.

To support this objective, a key aspect of our product development process is selecting sustainable and safe materials when manufacturing a product. We actively seek to avoid using chemicals of concern in new products and have been successful in removing these substances from many existing products through reformulation as raw material classifications have changed.

New PPG PHENGUARD 985 has benefitted from this proactive approach. Substances of concern have been reduced or totally removed without compromising its performance, including the minimization of crystalline silica in the filler package.

Such upgrades help support our customers with workplace safety, environmental impact and the achievement of their own sustainability goals.



For details on resistance to specific chemicals, including maximum storage temperatures, use our online chemical resistance TRIS tool: <https://www.ppgpmc.com/tris>





#### PPG PHENGUARD 985 | In summary

Latest addition to the successful PPG PHENGUARD range with a 50 year track record

Premium solvent-based novolac phenolic epoxy tanklining

High resistance to a wide range of aggressive cargoes and improved barrier to fatty acids at elevated temperatures

Suitable for high purity, high value cargoes

Flexibility to apply in two or three layers

High DFT allowance; up to 2x160µm/6.3 mils system can be confidently applied

Enhanced formulation delivers a more robust film that can better withstand over-application

Extended temperature window improves ship operational flexibility and chartering opportunities

Easy and quick to apply

Easy to clean

No risk of contamination between cargoes and therefore easy to switch

Improved health and safety aspects via reduction in use of substances of concern





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