

# PPG PHENGUARD® 985

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

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



# 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 (such as feedstock for certain biofuels), 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 storage opportunities.

## PPG PHENGUARD 985 delivers:

Improved performance	Market leading cargo resistance, including those containing fatty acids, and expanded storage temperature abilities.
Flexibility & robustness	Two or three coat application with no loss of performance. Enhanced formulation that is more robust and has superior application characteristics to better withstand over application.
Sustainability	Improved health and safety aspects via reduction in use of substances of concern.



## Improved performance

### Market leading cargo-carrying 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 such as feedstock for biofuels (for example used cooking oils).

Such highly aggressive cargoes can cause problems for land storage operators as feedstock solidifies at lower temperatures and so needs to be kept at an elevated temperature in order to be efficiently stored, pumped and transported. However, the storage of such cargoes at these higher temperatures has a detrimental effect on the efficacy of the tanklining.

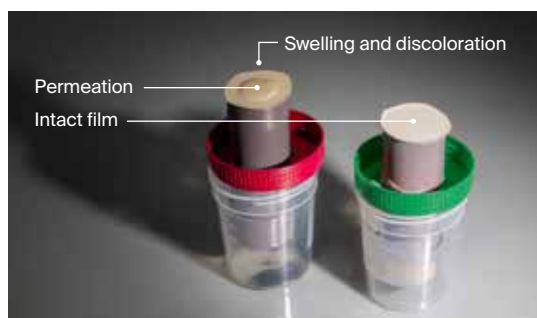
To combat this issue, PPG PHENGUARD 985 has been specifically designed to accommodate an extended temperature window for fatty acid distillates and similar cargoes.

For example, operators can confidently allow tank temperatures up to 65°C/140°F for bio-diesel feedstock. If required, a loading or discharge temperature up to 70°C/158°F can be allowed for ten days of storage or alternatively up to 75°C/167°F for a maximum of two days.

For details on resistance to specific chemicals, including maximum storage temperatures, use our online chemical resistance Tank Select tool: <https://www.ppgmc.com/tankselect>

### PPG PHENGUARD 985 - unrivalled protection from fatty acids

Fatty acid resistance test



**Failed**  
After 14 days at 70°C/158°F with other phenolic epoxy tanklining.



**Pass**  
After 14 days at 70°C/158°F with PPG PHENGUARD 985.

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

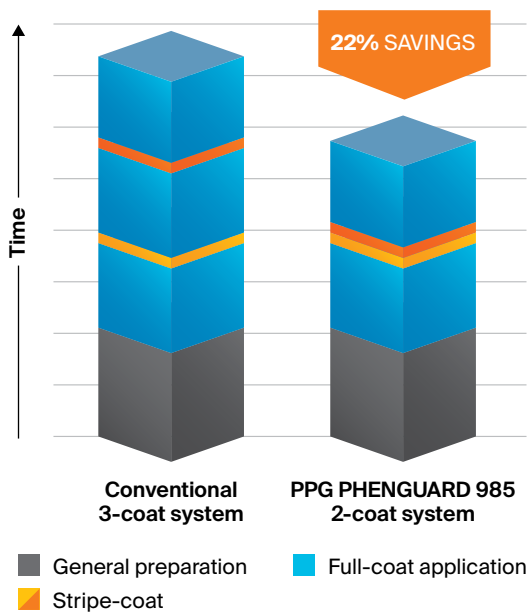
The unique formulation of PPG PHENGUARD 985 allows owners/operators and their painting contractors the flexibility to apply either two or three coats whilst having full confidence in the end result.

Customers choosing a two-coat solution (up to 2 x 160µm/ 6.3 mils) are now able to benefit from a higher dry film thickness allowance of readings up to 800µm/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 time in case of over-application by painters.

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

## Reducing your application time





# Improved formulation that enhances sustainability

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.

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.

The high temperature tolerance of PPG PHENGUARD 985 also supports the fast emerging biofuels feedstock sector which uses recycled vegetable oils to produce environmentally friendly fuels; its formulation is ideal for the elevated temperatures that these sustainable energy sources typically require when being stored.

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





### PPG PHENGUARD 985 | In summary

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

Premium solvent-based novolac phenolic epoxy tanklining

High resistance to a wide range of (aggressive) cargoes

Flexibility to specify and apply in two or three layers

High DFT allowance

Ideal for facilities that have dual refining processes switching from standard diesel to biodiesels

Suitable for high purity, high value cargoes

Suitable for all bio-fuels including feedstock

Specifically bio-diesel feedstock up to 65°C/140°F

Waste water in a broad pH range

Hot water up to 100°C/212°F

High operational flexibility (temp./chemical resistance)

Easy and quick to apply

Easy to clean

No risk of contamination between cargoes and therefore easy to switch between cargoes

Improved health and safety aspects



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