



Trial on Golden Princess

Testing Deck Clean NP at different applications on Golden Princess

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Introduction

Deck Clean NP is a newly developed non phosphate cleaner for deck applications. The product has been developed to handle most general cleaning applications like Steel, Stainless Steel, Paintwork, Windows, Bolids Decks, Woods and Varnished woods.

For spots of oil/grease and carbon soot Aquabreak PX needs to be used, the Deck Clean NP will not remove oil/grease and soot and the cleaning effect is reduced if oil/grease or soot remains on the surface when Deck Clean NP is applied.

This trial is to assess the cleaning performance of the Deck Clean NP in the above applications and below is a summary of the results from the tests

The Trial

The trial was carried out on board the Golden Princess in Seattle where Sadon Barazanci was the representative from Wilhelmsen Ships Service. Participating from the Golden Princess was staff captain Alan Nixon and deck bosun Joaquim.

Before the trial the MSDS for the Deck Clean NP was handed over and discussed as well as other general information on Deck Clean NP including a trial protocol. The Deck Clean NP arrived on board and the trial continued until 11:30 when the staff captain stopped the trial as passengers started to board the vessel.

All cleaning areas were on Deck 14 aft area by Neptune Pool and on deck 15. The areas that was not covered will be done by the bosun the next day.

There were some unfinished cleaning areas during the trial that will be carried out the next few days. Feedback will be given from the vessel. The areas concerned are the aft vinyl area and playing court on deck 15 where a scraper pad machine is to be used to see if scratches can be cleaned.

The windows were also cleaned during the next day and the feedback from the vessel was

“The Deck Clean worked well on the teak, glass and removed a rust stain from the steel bulkhead, it also seemed to work well on the astro turf.”

Results

Aft area with Star sign – Vinyl

Cleaning Conditions

There were deep scratches on the outer ring of the star emblem.

Dilution

Product applied neat to surface

Soak Time

20 minutes

Cleaning Method

Hand brush and brush scraper machine applied

Conditions after cleaning

Feedback from vessel; **Cleaning performance good**, still spots at scratches



Deck 15 Plating Court – Vinyl

Cleaning Conditions

Heavy spots on the area to be cleaned.

Dilution

Product applied neat to surface

Soak Time

20 minutes

Cleaning Method

Hand brush and brush scraper machine applied

Conditions after cleaning

Feedback from vessel; **Cleaning performance good**, still spots at scratches



Ceramic Tiles and Painted Grout

Cleaning Conditions

Dilution

Product applied at a 20% solution

Soak Time

20 minutes

Cleaning Method

Hand brush and then rinse with water

Conditions after cleaning

Cleaning result was excellent



Stainless Steel Door

Cleaning Conditions

Dilution

Product applied at a 20% solution

Soak Time

20 minutes

Cleaning Method

Hand brush and then rinse with water

Conditions after cleaning

Cleaning result was good



Outdoor Carpet, Astro Turf - Plastic

Cleaning Conditions

Dilution

Product applied at a 20% solution

Soak Time

20 minutes

Cleaning Method

Rubs by rugs

Conditions after cleaning

Cleaning result was very good



Rust Spots on Painted Steel

Cleaning Conditions

Dilution

Product applied at a 20% solution

Soak Time

20 minutes

Cleaning Method

Apply and rinse with water

Conditions after cleaning

Cleaning result was excellent



Teakwood Steps

Cleaning Conditions

Dilution

Product applied at a 20% solution

Soak Time

20 minutes

Cleaning Method

Hand brush and then rinse with water

Conditions after cleaning

Cleaning result was excellent



Deck Clean NP - Phosphate Free Bio Degradable Cleaner

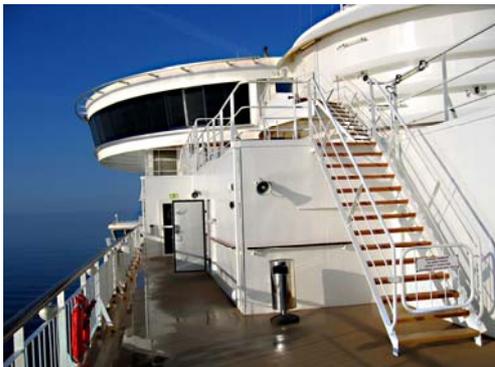
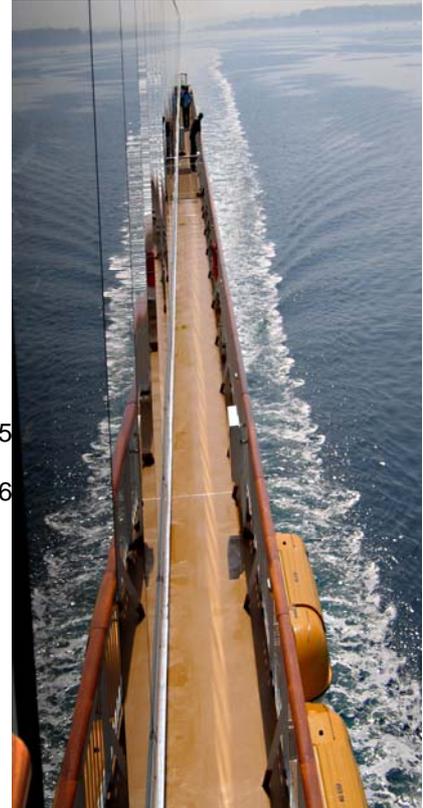
To clean Deck, Superstructure, Hull, Bolide Deck, Wood, Windows, Metal and Painted surfaces.

1. Deck Clean NP is recommended for the removal of rust and hardness salt stains from all the different surfaces
2. Remove dirt, rust flakes and oil/grease prior to using Deck Clean NP. This is best done by using Aquabreak PX in a 5-10% solution.
3. Deck Clean NP should be used neat on heavy stains or diluted 10-30% for lighter stains. Required dosage may vary depending on degree of stain
4. For general cleaning dilute Deck Clean NP to a 20% solution.

Total Volume	Water	Deck Clean NP
<i>20% Solution</i>	<i>Volume, ltr</i>	<i>Volume, ltr</i>
1	0,8	0,2
5	4	1
10	8	2
25	20	5

Tabel 1 Mix the Deck Clean NP to the water to get the 20% ready solution

7. Apply the solution to the area to be cleaned, use suitable application equipment.
8. See below for a detailed description of the different areas to be cleaned.
9. A second application may be necessary to remove the most stubborn stains.



Caution! Deck Clean NP should always be added to water, never the reverse. Use a plastic bucket or container for dilution.

Compatibility: Long term exposure will cause corrosion of mild steel, cast iron, aluminium, and alloys, brass, tin or galvanised material.

Deck, Superstructure, Hull, Stainless Steel and Paintwork

Make sure that surface to be cleaned is free from rust flakes and grease/oil.

1. Deck Clean NP should be applied at full strength on heavy stains, or diluted to 10-30% strength for light stains.
2. Allow to soak for about 20 minutes and rinse of surface with water. Do not let Deck Clean NP dry on surface.
3. A second application may be necessary to remove the most stubborn stains.

Window Cleaning

1. Make a 20% solution of Deck Clean NP for window cleaning. A higher dosage may be considered if there are heavy rust stains on the windows.
2. Allow to soak for about 20 minutes and rinse of surface with water. Do not let Deck Clean NP dry on surface.

Bolidt Decks

1. Deck Clean NP is recommended for daily cleaning and removal of salt and dirt. Cleaning of grease and soot on Bolidt floors are best carried out with alkaline cleaner like Aquabreak PX.
2. Make a 10-20% solution of Deck Clean NP for Bolidt cleaning.
3. Allow to soak for about 10 minutes and rinse of surface with water. Do not let Deck Clean NP dry on surface.

Wood and Varnished Wood

1. Make up to a 10% solution of Deck Clean NP for cleaning of rust and water stains on Wood and Varnished wood.
2. Allow to soak for about 20 minutes and rinse of surface with water. Do not let Deck Clean NP dry on surface.
3. For brightening of untreated teak, mahogany and oak decking, our product Teak Renewer is recommended.

Cleaning of Aluminium

1. Use a solution of 10-30% for Aluminium cleaning.
2. Rise of surface **maximum 5 minutes** after application.

For detailed information on safety and health please read the material safety data sheet before using this product, it can be found on the intranet or with the product label on the product packing