

# LineGuard™ EG

PPG OPTIMA SOLUTIONS™



PPG LineGuard™ EG\* is an easy-to-clean protective coating for OEM electrocoat carriers. Our versatile coating offers improved health and safety and can generate significant savings in cleaning and maintenance areas.

## Reduces contaminant buildup on vehicle carriers

PPG LineGuard EG is a solvent-free epoxy coating formulated to help automotive and commercial vehicle OEMs dramatically reduce the time, cost and risk associated with maintaining vehicle carriers used in the e-coat process.

Many OEMs are forced to pull carriers from production every 300 to 350 cycles to remove buildup of e-coat, grease, and other contaminants. The insulative properties of LineGuard EG coating resist material adhesion and buildup, enabling OEMs to extend cleaning intervals by up to 75%.

LineGuard EG coating produces a smooth, hard, glossy finish with excellent release properties, and is highly resistant to acid and caustic chemicals.

## Faster, easier cleaning requirements

Removing contaminants from uncoated carriers often requires OEMs to rely on outside vendors for thermal cleaning or contract labor for time-intensive, on-site water blasting using extremely high – and potentially dangerous water pressures.

LineGuard EG coating helps users dramatically reduce the time needed to properly clean each carrier. Additionally, the coating can be effectively cleaned at significantly lower water pressures, reducing risk of injury to workers and eliminating the need for more expensive water blasting equipment.

## Recognized Benefits:

### Cost Improvement

- Reduction of cleaning management costs and labor
- Reduction of coating accumulation on equipment
- Easier maintenance (*clogged filters, nozzles, transfer mechanism*)
- Reduced line stoppage risk and down time

### Safety and Environmental Impact Improvement

- Reduction risk of injury due to cleaning (*lower water pressure needed*)
- Elimination of cleaning chemicals
- Improved sustainability through reduced water and energy consumption
- Reduction of hazardous waste disposal

### Investment Improvement

- Reduction of safety stocks of e-coat hangers
- Reduction in capital and maintenance for blasting and cleaning equipment

### Process Improvement

- Simplification of the cleaning loop
- Reduction of cleaning management
- Reduction of cleaning cycle time
- Reduction of repair costs and possible line stoppage due to “dirt” from carriers being deposited on units



\*PPG LineGuard™ EG previously known as PPG Envirogreen® 84

### Requires less water, produces less waste

The frequent cleaning cycles and time-intensive water blasting requirements of uncoated carriers also increases OEMs' water, energy and waste disposal costs. Some OEMs using *LineGuard EG* coating have extended carrier cleaning intervals to thousands, rather than hundreds, of e-coat cycles, leading to significant savings not only in labor, but also materials, energy and waste filtration/removal.

### Helps maintain e-coat throwpower and film build

Because *LineGuard EG* resists e-coat buildup on vehicle carriers and helps minimize tank contamination, more paint can reach the vehicle body. This helps maintain

desired throwpower and film build capabilities while better controlling energy consumption.

### A turnkey solutions offering

PPG makes this offering through a turnkey solutions package. Using our approved and validated applicator network, we will provide a fully coated e-coat hanger door to door. We will project manage this offering to you - including arrangement according to your schedule and timing considerations, as well as making the logistics arrangements.

## Customer Care and Maintenance After Coating

*LineGuard EG* is designed to last for several years of normal production cycles provided basic care, cleaning and maintenance requirements are met. Please contact your local PPG Optima Solution Service representative for further details.

### How do I clean parts that have been coated with LineGuard EG?

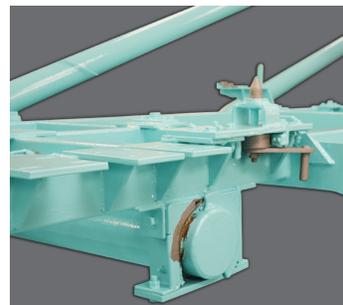
Normal pressure washing is suitable for *LineGuard EG*, but at a much lower pressure than without the coating. Typically 250-350 bar or 3600-5100 psi of pressure is needed, but this can vary based on distance and tip shape. Aggressive scraping of any kind, chemical cleaning, burning cleaning and/or very high water pressure is NOT recommended as either can damage the coating.

### What other maintenance considerations are there?

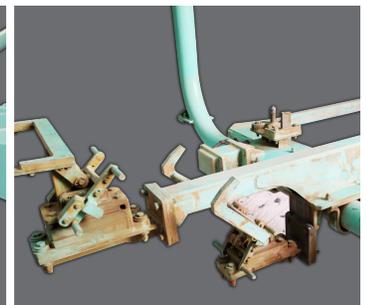
Avoid strong metal to metal shocks, rubbing or scraping to keep the coating intact. *LineGuard EG* can withstand short term exposures to pH extremes, but the coating should not be stored in very basic or acidic conditions. *LineGuard EG* should not be exposed to high temperature (ex: e-coat oven).

### Will the appearance of the coating change over time?

Yes, over time there will be some level of residual paint left on the coating and the glossy virgin color will change to show some areas of light gray and a more matte finish. This is normal and to be expected. The functionality of the product will not be impacted. There will be more negative impact with overly aggressive cleaning.



Freshly Coated



Normal Appearance after use in production

### Can LineGuard EG be repaired in the paint shop?

Yes, *LineGuard EG* is designed to be repairable within the plant with available cartridges of the material - provided the surface of the carrier is properly prepared. There is a six day curing time at ambient temperature for each product before use can resume, but can be less with an increase of the curing temperature.

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