



# Amerlock 400GFA

## High Solids Glassflake Epoxy Coating

### Product Data/ Application Instructions

- High build glassflake epoxy coating
- High performance coating for new or old steel
- Can be overcoated with wide range of topcoats
- Compatible with prepared damp surfaces
- Cures through wide temperature range
- Up to 750 µm in a single coat
- Resists high humidity and moisture
- Suitable for sea water immersion
- Low VOC, high solids

#### Typical Uses

As a maintenance or new construction coating Amerlock 400GFA protects both steel and concrete structures in severe environments, including marine structures, petroleum processing and storage facilities and other heavy industrial facilities. On offshore platforms, Amerlock 400GFA is suitable for use in splash and tidal zones, under-deck areas and helidecks as well as sub-sea facilities.

#### Outstanding Characteristics

Amerlock 400GFA has good resistance to chemical splash/spillage and fumes. The glassflake reinforcing provides a high degree of moisture impermeability, along with good abrasion and impact resistance. Amerlock 400GFA meets impressed current testing (ASTM G42). Amerlock's low solvent level reduces the chances for film pinholing and solvent entrapment at the substrate-coating interface, often a major cause of coating failure with conventional epoxies and lower solids systems.

Amerlock 400GFA does not normally require a topcoat, but for appearance, extended weatherability or special use, a topcoat may be desired.

Adhere to all application instructions, precautions, conditions and limitations to obtain maximum performance. For conditions outside the requirements or limitations described, contact your PPG representative.

#### Physical Data

Finish .....	flat
Colour .....	Black, White, RAL 7035, RAL 1013 *
Components .....	2
Mixing ratio (by volume)	
Amerlock 400GFA resin .....	1 part
Amerlock 400C/400GFA cure .....	1 part
Curing mechanism .....	solvent release and chemical reaction between components
Volume solids .....	91% (ISO 3233) **
VOC**	
EC SED 1999/13/EC .....	103 g/kg (154 g/l)
UK PG6/23(92) Appendix 3 .....	68 g/l (0.6 lbs/gal)
Dry film thickness .....	200 - 750 µm per coat
Number of coats .....	1
Calculated coverage .....	4.6 m <sup>2</sup> /l at 200 µm 1.2 m <sup>2</sup> /l at 750 µm
Allow for application losses, surface irregularities, etc.	
Specific gravity .....	1.5 kg/l (mixed product)
Temperature resistance .....	Dry                      Wet
	°C                      °F                      °C                      °F
Continuous .....	218                      425                      40                      104
Short term peak temp .....	232                      450                      40                      104
Some discoloration and darkening will occur at temperatures greater than 93°C; this will not affect film integrity or coating performance.	
Flash points (Closed Cup).....	°C                      °F
Amerlock 400GFA resin .....	43                      109
Amerlock 400C/400GFA cure .....	36                      97
PPG 12 A1 A.....	24                      75
Amercoat 12 .....	24                      75

\* The glassflake in Amerlock 400GFA imparts shade differences from the standard colours.

\*\* Volume solids is measured in accordance with ISO 3233 .Slight variations ±3% may occur due to colour and testing variances.

\*\*\* VOC figures are quoted according to both the EC directive 1999/13/EC which are theoretically calculated figures and the UK PG6/23(92) Appendix 3 which are practically determined figures



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## Application Procedure

Amerlock 400GFA is packaged in two components in the proper mixing proportions which must be mixed together before use.

Amerlock 400GFA Resin                    10 l in 20 l can  
Amerlock 400C/400GFA Cure            10 l in 10 l can

1. Flush equipment with recommended cleaner before use.
2. Mix resin and cure thoroughly.
3. Add cure to resin, and mix thoroughly until uniformly blended to a workable consistency.
4. Potlife is limited and shortened by high temperatures; do not mix more material than will be used within the potlife at the specified temperature.
5. For optimum application, material should have a temperature from 10 - 30°C (50 – 86°F). Above 45°C/113°F sagging may occur.
6. Use only PPG recommended thinners. NOTE: A small amount of thinner greatly reduces viscosity. Excessive thinning will cause running or sagging. Thin cautiously as follows:  
For conventional spray, thin only as needed for workability with no more than 10 vol. % thinner. Thinning is normally not needed for airless spray.
7. Apply in even, parallel passes; overlap 50% to avoid holidays, bare areas, and pinholes. If required, cross spray at right angles.
8. Ventilate confined spaces with clean air between coats and while curing the final coat. The steel temperature must be at least 3°C/5°F above the dew point to prevent condensation on the surface between coats.
9. Repair any damage by brush or spray.
10. Clean all equipment with recommended cleaner immediately after use. When left in spray equipment, Amerlock 400GFA will cure and cause clogging.

## Shipping Data

### Packaging

Amerlock 400GFA resin                    10 l in 20 l can  
Amerlock 400C/400GFA cure            10 l in 10 l can

### Shipping weight

Amerlock 400GFA resin                    approx. 18 kg  
Amerlock 400C/400GFA cure            approx. 15 kg

Shelf life ..... 1 year from shipment date when stored indoors in unopened, original containers at 5 - 40°C (41 – 104°F)

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## Caution

This product is flammable. Keep away from heat and open flame. Keep container closed. Use with adequate ventilation. Avoid prolonged and repeated contact with skin. If used in confined areas, observe the following precautions to prevent hazards of fire or explosion or damage to health:

1. Circulate adequate fresh air continuously during application and drying;
2. Use fresh air masks and explosion proof equipment;
3. Prohibit all flames, sparks, welding and smoking.

Do not empty into drains. Take precautionary measures against static discharges. For specific information on hazardous ingredients, required ventilation, possible consequences of contact and safety measures see Safety Data Sheet.

## Safety

Since improper use and handling can be hazardous to health and cause of fire or explosion, safety precautions included with Product Data/Application Instruction and Material Safety Data Sheet must be observed during all storage, handling, use and drying periods.

## Warranty

PPG warrants its products to be free from defects in material and workmanship. PPG's sole obligations and Buyer's exclusive remedy in connection with the products shall be limited, at PPG's option, to either replacement of products not conforming this warranty or credit to Buyer's account in the invoiced amount of the non-conforming products. Any claim under this warranty must be made by Buyer to PPG in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life, or one year from the delivery date, whichever is earlier. Buyer's failure to notify PPG of such non-conformance as required herein shall bar Buyer from recovery under this warranty.

**PPG makes no other warranties concerning the product. No other warranties, whether express, implied or statutory, such as warranties of merchantability or fitness particular purpose, shall apply. In no event shall PPG be liable for consequential or incidental damages.**

Any recommendations or suggestion relating to the use of the products made by PPG, whether in its technical literature, or response to specific enquiry, or otherwise, is based on data believed to be reliable; however, the products and information are intended for use by Buyer's having requisite skill and know-how in the industry, and therefore it is Buyer to satisfy itself of the suitability of the products for its own particular use and it shall be deemed that Buyer has done so, as its sole discretion and risk. Variation in environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results.

## Limitation of Liability

PPG's liability on any claim of any kind, including claims based upon PPG's negligence or strict liability, for any loss or damage arising out of, connected with, or resulting from the use of the products, shall in no case exceed the purchase price allocable to the products or part thereof which give rise to the claim. In no event shall PPG be liable for consequential or incidental damages.

Due to PPG's policy of continuous product improvement, the information contained in this Product Data/Application Instructions sheet is subject to change without notice. It is the Buyer's responsibility to check that this issue is current prior to using the product. For the most up-to-date Product Data/Application Instructions always refer to the PPG Protective & Marine Coatings website at [www.ppgpmc.com](http://www.ppgpmc.com)

To avoid any confusion that may arise through translation into other languages, the English version of the Product Data/Application Instructions will be the governing literature and must be referred to in case of deviations with product literature in other languages.

## Condition of Sale

All our transactions are subject to our Terms and Conditions of Sale.

PPG Coatings Europe BV

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