



Epoxy Novolac Tank Lining

Product Data/ Application Instructions

- High performance epoxy novolac also defined phenolic epoxy tanklining
- Broad spectrum of chemical resistance
- Withstands continuous immersion in deionised water up to 93°C (199°F)
- Withstands continuous immersion in hot concentrated brine up to 70°C (158°F)
- Withstands continuous immersion in hot sour crude up to 150°C (302°F)

Typical Uses

Amercoat 91 provides excellent protection to prepared steel and concrete exposed to chemical immersion, splash, spillage and fumes. Amercoat 91 is used as high performance tanklining for road tankers and storage tanks in the chemical and petrochemical industries.

Amercoat 91 has excellent resistance to continuous and alternating service for a wide range of chemicals, solvents, caustic, crude and fuel oil, as well as, neutral, alkaline and non oxidizing salt solutions in water. It may be cleaned between cargoes with hot cleaning, up to a butterworth temperature of 82°C(180°F).

Physical Data

Finish	. low gloss	
Colour	. light buff, white*	
Components	. 2	
Mixing ratio (by volume) resin cure		
Curing mechanism	. Solvent release and chemical reaction between components	
Volume solids (calculated)	. 54%	
VOC** EC SED 1999/13/ECUK PG6/23(92) Appendix 3	0 0 0 7	
Dry film thickness	. 125-150 μm (5 - 6 mils) per coat	
Number of coats	. 2	
Calculated coverage	. 3.6 m²/l at 150 μm	
Allow for application losses, s	surface irregularities, etc.	
Density	1.5 kg/l (mixed product)	
Flash points (closed cup)resin		

 Thinner
 Amercoat 65

 Cleaner
 Amercoat 12

 cure
 93

 Amercoat 65
 24

 Amercoat 12
 21

199

^{*} When exposed to high temperatures will discolor.

^{**} 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

Application Instructions

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

Surface Preparation

Coating performance is, in general, proportional to the degree of surface preparation. All surfaces must be clean, dry and free of all contamination, including soluble salts be fore applying coating.

STEEL – NEW WITHOUT PITS OR DEPRESSIONS. Blast in accordance with Sa 2½ ISO 8501-1 or SSPC-SP10.

RUSTED OR PITTED STEEL. Blast in accordance with Sa 3 ISO 8501-1 or SSPC-SP5.

Blast to achieve an angular minimum profile of 38 micron as determined with *Testex* Tape or a similar device. Remove abrasive residue or dust from surface.

Apply Amercoat 91 as soon as possible to prevent rerusting. Keep moisture, oil, grease or other organic matter off surface before coating. Spot reblast to remove any contamination. Solvent whiping is not adequate.

CONCRETE- Clean concree and masonry surfaces; abrasive blast (ASTM D4259). Fill small holes or voids with Nu-Klad 114A before applying Americat 91.

Application Equipment

The following is a guide; suitable equipment from other manufacturers may be used. Changes in pressure, hose and tip size may be necessary for proper spray characteristics.

Airless spray- Standard equipment, such as Graco Bulldog Hydra-Spray or larger, with a 0.017-0.023 inch tip.

Conventional spray- Industrial equipment, such as DeVilbiss MBC or JGA spray gun, and a pressure material pot. A moisture and oil trap in the air supply and separate regulators for air and fluid pressure are required.

Power mixer- Jiffy mixer powered by an air or explosion proof electric motor.

Application Data

Substrate	Blasted steel, concrete	
Environmental Conditions Air temperature Surface temperature		
Surface temperature must be at least3°C/5°F above dew point to prevent moisture condensation on the surface.		
Application	conventional or	airless spray, brush
Potlife (at 21°C/70°F)	6 hours	
Potlife and drying times are dependent on temperature, ventilation, relative humidity, coating thickness, etc.		
Induction time	15 minutes	
Temperature resistance* Wet Dry	93	°F 199 399
Drying times at 23°C/73°F to touchto recoat minimumto recoat maximumbefore immersion	16 hours 90 days	
Thinner	Amercoat 65	

Cleaner Amercoat 12

Application Procedure

- 1. Flush equipment with recommended thinner before use.
- 2. Stir resin solution thoroughly to homogeneous liquid.
- Add cure to the resin and mix until uniform using a power mixer. Amercoat 91 is packaged in the proper mixing proportions of resin and cure. Do not mix more material then will be used during the potlife
- 4. Allow an induction time of 15 minutes at 20°C (68°F)
- If necessary for workability, use up to 10% of recommended thinner for airless or conventional equipment.
- Apply a wet coat in even parallel passes, overlapping each pass 50% to avoid holidays, bare areas and pinholes to achieve a dry film thickness of 125-150 microns (5 - 6 mils).
- Check the dry film thickness using nondestructing dry film thickness gauge. If less than the specified thickness apply additional material. Total dry film thickness must not exceed 350 microns (14 mils) in 2 coats, and must not be less than 200 microns
- 8. When a pinhole-free coating is required, check continuity with a non destructive holiday detector (wet sponge method)
- 9. Normal recommended dry film thickness is 125-150 μm (5 6 mils).
- After use, clean equipment with recommended cleaner.

Shipping Data

Packaging resincure	17.59 I (4.65 gal) in 20 I can 2.41 I (0.64 gal) in 5 I can
Shipping weight resincure	29.3 kg 2.8 kg
Shelf life	1 year from shipment date when stored indoors in unopened, original containers at 5 to 40°C (41- 104°F)

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.

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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 knowhow 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.

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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

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.

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