



Amercoat 3652

Surface tolerant, high solids epoxy aluminium primer

(formerly Steelguard 3652)

Product Data/ Application Instructions

- **Surface tolerant two pack epoxy aluminium primer**
- **EPA compliant**
- **High build, high solids and low VOC**
- **Network Rail approved**
- **Excellent adhesion to manually prepared surfaces**
- **Excellent abrasion and impact resistance**
- **Compatible with most aged coatings**

Typical Uses

Surface tolerant maintenance coating for general structural steel such as bridges, marine structures, petroleum processing and storage facilities, chemical and power plants and other heavy industrial facilities. Specifically formulated for use on manually prepared rusty steel surfaces where dry abrasive blasting is not possible

Approvals

Amercoat 3652 is approved and registered to Network Rail RT98 specification item 7.1.5.

Outstanding Characteristics

Amercoat 3652 exhibits excellent adhesion to manually prepared rusty steel surfaces thus providing long term corrosion resistance when used in combination with suitable intermediate and topcoats. Compatibility is excellent with most aged coating systems and is therefore the ideal solution to the upgrading of aged systems without the need for their complete removal.

Physical Data

Finish	semi gloss
Colour	aluminium
Components	2
Mixing ratio (by volume)	
resin	1 part
cure	1 part
Curing mechanism	solvent release and reaction between components. Effective cure down to 5°C/41°F
Volume solids :.....	85+/-3%
VOC	160 g/l
Dry film thickness	75-200 µm per coat
	typical minimum maximum
Dry film thickness (µm)	100 75 200
Wet film thickness (µm)	118 88 235
(wet film thicknesses quoted are typical for one airless spray coat)	
Number of coats	1
Calculated coverage	8.5 m ² /l at 100 µm
Allow for application losses, surface irregularities, etc.	
Specific gravity	1.29 kg/l (mixed product)
Flash points	
(Closed Cup).....	°C °F
resin	40 104
cure	43 109
Amercoat 18	25 77
Amercoat 12 cleaner	24 75

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Surface preparation

Performance will be dependent upon the degree of surface preparation. With manual preparation, hand or power tool clean to a minimum standard conforming to ISO 8501-1 St2. Amercoat 3652 may also be applied to a blast cleaned surface, typically of standard ISO 8501-1 Sa2^{1/2}. The blast profile should be within the range 50 to 100 microns.

Brush or roller application is recommended on manually prepared surfaces, with spray application limited to blast cleaned surfaces.

Amercoat 3652 can also be applied to existing aged coating systems. Loose and flaking coatings should be removed and feathered back to a firm edge. Remaining glossy coatings such as epoxy and polyurethane should be abraded and degreased prior to application. A test area is advised to ensure compatibility and no reaction with the existing coating. In all cases the surfaces must be dry and free of dust, salts, grease and other contaminants immediately before coating.

Mixing

Stir the resin component thoroughly, then add the cure and continue mixing until the product is uniform throughout. A powerful mixer should be used.

Application

AIRLESS SPRAY: Use standard airless spray equipment capable of producing a minimum pressure at the tip of 2800 psi (200 kg/cm²). Tip size range 18-25 thou (0.46-0.64mm)..

BRUSH/ROLLER: Apply evenly using a clean, well-loaded brush or roller. A maximum dft of 125 microns by brush and 100 microns by roller is achievable in one coat.

Overcoating

Typically overcoated with epoxy intermediates such as Amercoat 3654. Also suitable for topcoating with finishes such as Amercoat 450S and Amercoat 440HS. There are no maximum overcoating restrictions with these products provided the Amercoat 3652 is clean, dry and free of contamination before overcoating.

Application Data

Substrate steel
Application methods airless spray, brush or roller
Potlife (at 20°C/68°F) 2 hours
Drying characteristics

	°C/°F	
Temperature	10/50	20/68
Touch dry	10 hours	4 hours
Hard dry	24 hours	16 hours
Overcoating (minimum)	16 hours	8 hours
Overcoating (maximum)	-	-

Note: All information relates to the typical dry film thickness.

Potlife and drying times are dependent on prevailing temperatures.

Environmental conditions

Amercoat 3652 should only be applied within the limits of temperature and humidity set out below.

Relative humidity: Up to 90%
Surface temperature: Minimum 5°C/41°F
..... Maximum 40°C/104°F

The surface temperature must also be at least 3°C/5°F above the dew point during application.

Induction time (at 20°C/68°F) not applicable
Thinner Amercoat 18
Cleaner Amercoat 12 cleaner

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Application procedure

1. Clean the equipment with the recommended cleaning solvent before use.
2. Stir the resin component thoroughly, then add the cure and continue mixing until the product is uniform throughout. A powerful mixer should be used. Thinning is not required.
3. For airless spray, apply a wet even coat in parallel passes. Overlap each pass by 50% to avoid bare areas, pinholes or holidays.
4. Give special attention to welds, rough spots, sharp edges and corners, rivets, bolts, etc.
5. Application at 120µm wet film thickness will normally provide 100µm dry film.
6. Check thickness of dry coating with a non-destructive dry film thickness gauge, such as Mikrotest or Elcometer. If less than specified thickness, apply additional material as needed.
7. Small damaged or bare areas and random pinholes or holidays can be touched up by brush. Repair larger areas either by spray, brush or roller using Amercoat 3652.
8. In confined areas ventilate with clean air during application and drying. The humidity should be maintained below 90% and the temperature such that moisture condensation will not form on the surface.
9. Clean all equipment with fresh, clean solvent immediately after use.

Before using the product, read the label on the can and consult the material safety data sheet.

Shipping Data

Packaging.....	5 and 20 litres in two part units
resin for 20 l unit	10 l in 20 l can
resin for 5 l unit	2.5 l in 5 l can
cure for 20 l unit.....	10 l in 10 l can
cure for 5 l unit.....	2.5 l in 2.5 l can

Shipping weight (approx)

.....	20 l unit	5 l unit
resin	15 kg	4 kg
cure	13 kg	3 kg

Shelf life 1 year from shipment date or as indicated on label when stored indoors in unopened, original containers at 5 to 40°C (41 to 104°F).

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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

Ameron warrants its products to be free from defects in material and workmanship. Ameron's sole obligations and Buyer's exclusive remedy in connection with the products shall be limited, at Ameron'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 Ameron 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 Ameron of such non-conformance as required herein shall bar Buyer from recovery under this warranty.

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Due to Ameron'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 Ameron Performance Coatings & Finishes website at www.amerondirect.co.uk

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.