



**AMERON**  
INTERNATIONAL

Performance Coatings & Finishes

# Tideguard® 182

*Splash zone barrier coating*

## Product Data/ Application Instructions

- Formulated for application and cure underwater in fresh or salt water
- 100% solids epoxy
- Excellent cathodic disbondment resistance
- Excellent water resistance
- Effective corrosion barrier
- Excellent chemical and solvent resistance

Tideguard 182 is a special polyamide epoxy mastic for use on those areas of marine structures and pipelines which cannot be maintained effectively with conventional coatings or cathodic protection.

Many years of service around the world confirm the effectiveness of Tideguard 182 as a corrosion barrier.

### Typical Uses

- Repair underwater pipe
- Repair underwater pilings and bracings
- Repair water line structures and retaining walls

### Typical Properties – after 7 days @ 70°F (21°C)

#### Mechanical

Density (ASTM D71 modified)	100 lbs/ft <sup>3</sup>
Hardness (ASTM D3363)	6H

### Application Data Summary

Adhere to all instructions, precautions, conditions and limitations during storage, handling, application and drying periods to obtain maximum performance. For conditions outside the requirements or limitations described, contact your Ameron representative.

### Surface Preparation

Coating performance, in general, is proportional to the degree of surface preparation.

**Steel** – Surfaces should be abrasive blasted to remove rust, scale, old coating and barnacles. Abrasive blasting can be done with conventional equipment below the water as well as above. Wet abrasive blasting and power tool cleaning can be used as long as a deep profile is created, and old rust scale is removed.

### Physical Data

Color	Gray	
Components	2	
Curing mechanism	Chemical reaction between components	
Volume solids	100%	
Theoretical coverage	ft <sup>2</sup> /gal	m <sup>2</sup> /L
1 mil (25 microns)	1604	39.3
250 mils (¼-inch)	6.4	0.15
VOC	lb/gal	g/L
mixed	0.01	1
Flash point (SETA)	°F	°C
182 cure	>200	93
182 resin	>200	93
Amercoat 12	2	-17
T-10	80	27

### Application Data

Applied over	Prepared steel,		
Surface preparation	Abrasive blast, power tool clean		
steel			
Method	Hand smear, roller, trowel, or with membrane		
Mixing ratio (by volume)	1 part resin to 1 part cure		
	°F/°C		
	90/32	70/21	50/10
Working time (hours)	½	1	1½
Initial setting	2½	5	10
Curing time before recoating			
minimum	12	24	48
maximum	36	72	144
<i>If maximum recoat time exceeded, roughen surfaces.</i>			
Environmental conditions			
Temperature	°F		°C
material and surface	50 to 120	10 to 49	
Equipment cleaner	Amercoat 12 or T-10		

## Environmental Conditions

Temperature	°F	°C
material and surface	50 to 120	10 to 49

Below 65°F (18°C) workability is reduced and application more difficult. Above 80°F (27°C) working time decreases.

Tideguard 182 can be applied to surfaces as low as 50°F (10°C); although curing is slower at lower temperatures, typical properties of cured material will not be affected.

## Mixing

Tideguard 182 coating is supplied as two components. Mix both components together until a uniform gray color is obtained with no streaks. Avoid over-mixing after the gray color is achieved as over-mixing will shorten the pot life.

Note: For in-water applications, consult applicable regulations concerning safety precautions and equipment.

## Application

Tideguard 182 coating may be applied by hand smearing to a thickness of 1/8 to 1/4 inch for long-term protection. Best results in manual application can be obtained by applying a ring or doughnut of the material to structural members above the water level and then smearing it down uniformly to, and below, the water level, making an effort to feather edge the top and bottom to the member. The applicator's hands should be kept wet at all times so that the material can be molded like putty to the structure. A little more effort is needed to keep the material in place as it is applied below the water level; this calls for patience in holding and working the product.

An alternate method of application to tubular members consists of carrying the product on to the surface with a membrane such as fiberglass cloth or canvas ducking. This method is preferred where wave action and/or currents make hand smearing impractical. The membrane should be cut in strips 2 inches longer than the pipe circumference. Hand smear the mixed coating to the membrane, wrap, and tie to the surface. The coated side of the membrane should be pressed carefully against the surface to displace water. When coating small diameter pipes, it is recommended that 4 or 6 inch fiberglass tape be used as the membrane. After coating, this can be spiralled on and tied to the surface.

It is sometimes helpful and desirable, especially in rough water, to apply a spiral wrap of polyethylene, glass fiber, burlap, cheesecloth, or other similar material over the freshly applied coating to help hold the coating in place during the initial curing operation.

To achieve the optimum thickness of 1/8 to 1/4 inch, the coverage per gallon should not exceed 6 to 12 square feet. A two-person crew can apply one gallon of mixed material in approximately 30 minutes.

Tideguard 182 coating is 100% solids and contains no flammable solvents.

## Cleanup

Clean all mixing equipment and application tools immediately with Amercoat 12 or T-10.

## Limitation of Liability

Ameron's liability on any claim of any kind, including claims based upon Ameron'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 Ameron be liable for consequential or incidental damages.**

## Shipping Data

Packaging units	2 Gal	
cure	1 gal in 1 gal can	
resin	1 gal in 1 gal can	
Shipping weight (approx)	lbs	kg.
cure	14.1	6.4
resin	14.2	6.5

Shelf life when stored indoors at 40 to 100°F (4 to 38°C)  
1 year from shipment date

Numerical values are subject to normal manufacturing tolerances and testing variances. Allow for application losses and surface irregularities.

This mixed product is nonphotochemically reactive as defined by the South Coast Air Quality Management District's Rule 102 or equivalent regulations.

## Safety Precautions

Read each component's material safety data sheet before use. Mixed material has hazards of each component. Safety precautions must be strictly followed during storage, handling and use.

**CAUTION – Improper use and handling of this product can be hazardous to health.**

**Do not use this product without first taking all appropriate safety measures to prevent property damage and injuries. These measures may include, without limitation: implementation of proper ventilation, use of proper lamps, wearing of proper protective clothing and masks, tenting and proper separation of application areas. Consult your supervisor. Proper ventilation and protective measures must be provided during application and drying to keep spray mists and vapor concentrations within safe limits and to protect against toxic hazards. Necessary safety equipment must be used and ventilation requirements carefully observed, especially in confined or enclosed spaces, such as tank interiors and buildings.**

**This product is to be used by those knowledgeable about proper application methods. Ameron makes no recommendation about the types of safety measures that may need to be adopted because these depend on application environment and space, of which Ameron is unaware and over which it has no control.**

**If you do not fully understand these warnings and instructions or if you cannot strictly comply with them, do not use the product.**

**Note:** Consult Code of Federal Regulations Title 29, Labor, parts 1910 and 1915 concerning occupational safety and health standards and regulations, as well as any other applicable federal, state and local regulations on safe practices in coating operations.

***This product is for professional use only. Not for residential use.***

## Warranty

Ameron warrants its products to be free from defects in material and workmanship. Ameron's sole obligation and Buyer's exclusive remedy in connection with the products shall be limited, at Ameron's option, to either replacement of products not conforming to this Warranty or credit to Buyer's account in the invoiced amount of the nonconforming 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 nonconformance as required herein shall bar Buyer from recovery under this Warranty.

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

Any recommendation or suggestion relating to the use of the products made by Ameron, whether in its technical literature, or in response to specific inquiry, or otherwise, is based on data believed to be reliable; however, the products and information are intended for use by Buyers having requisite skill and know-how in the industry, and therefore it is for 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, at 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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