

Tideguard® 171A

Spray-on epoxy cladding

Product Data

- Spray applied epoxy cladding
- Long-lasting economical splash zone protection
- Resists impact and abrasion

Typical Uses

Cladding on carbon steel for tidal and splash areas of offshore structures and pilings. Applied in fabrication yards on new structures; also may be applied to in-place structures.

Outstanding Characteristics

Forms a tough barrier providing long-lasting protection in continuous or intermittent immersion against repeated splash wetting and wave action, and salt air exposure. Also protects against damage due to impact and abrasion from workboats, debris and ice.

Can be exposed to still-water contact right after application and spray-applied to horizontal, vertical, overhead surfaces or complex structural configurations.

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

Density (ASTM D71modified)	119 lb/ft ³
	(1906.9 kg/m ³)
Shear bond strength on steel	1000 psi
-	$(7 \text{ x } 10^5 \text{ kg/m}^2)$
Tensile strength (ASTM C307)	2900 psi
-	(20.4 x 10 ⁵ kg/m ²)
Compressive strength (ASTM C579)	11200 psi
	$(79.3 \text{ x } 10^5 \text{ kg/m}^2)$
Flexural strength (ASTM C580)	5300 psi
-	$(37.7 \text{ x } 10^5 \text{ kg/m}^2)$
Modulus of elasticity (ASTM C580)	9.4 psi x 10 ⁵
	(6.6 x 10 ⁸ kg/m ²)

Application Data Summary

See Application Instructions for complete information on surface preparation, environmental conditions, application equipment. To obtain maximum performance, apply as recommended. Adhere to all safety precautions during storage, handling, application and drying periods.

Physical Data

-			
Color	Gray		
Components	3		
Curing mechanism	Chemical reaction between components		
Recommended thickness per c	oat		
	³ / ₁₆ " ± ¹ / ₁₆ " (5 mm ± 1.5 mm)		
Coats	1		
Calculated coverage (per unit) ³ / ₆ " (5mm)	${ m ft}^2$ 28.0	m ² 2.6	
VOC	.03 lb/gal	3.6 g	/L
Flash point (SETA) cure resin Amercoat® 104 cleaner Amercoat 861 Accelerator	°F >200 174 176 300	°C >93 79 80 149	
Application Data			
Applied over	Steel		
Surface preparation	Abrasive blast		
Method	Spray (See Application Instructions)		
	0.0 /8.0	50/84	°F/°C
WWO WITH OTTOOL BOTTOOL	1111/22	/ 1 1 / 1 1	611/11

Working time (hours)	90/32	70/21	50/10
normal accelerated (Amercoat 861)	1/2 —	1 ½	- 1
Initial setting time (hours) normal accelerated (Amercoat 861)	5 -	10 8	_ 24
Environmental conditions			
Temperature air surface	°F 65 to 90 50 to 100	° 18 t 10 t	C o 32 o 38
Surface temperatures must be point to prevent condensation.	at least 5°F	F (3°C) abov	ve dew
Time before service @ 3/16" (days	s)	°F/°C	
normal	70/21 3	50, 1	/10 0

Fauinment cleaner	Amercoat 104
Equipment cleaner	Amercuat 104

Surface Preparation

Coating performance is, in general, proportional to the degree of surface preparation. Prior to coating, all surfaces must be clean, dry, undamaged and free of all contaminants, including salt deposits.

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.

This product is for industrial 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 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 nonconformance as required herein shall bar Buyer from recovery under this Warranty.

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Shipping Data

Packaging unit	53.4 lb	
cure	4.69 lb in 1-gal can	
resin	8.74 lb in 5-gal can	
powder	40 lb in 3 gallon pail	
Shipping weight (approx)	lb	kg
5-gal unit		o -
cure	5.5	2.5
resin	12.2	5.6
powder	41.3	18.8

Shelf life when stored indoors at 40 to 100°F (4 to 38°C) in unopened, tightly sealed containers

resin, cure, powder 1 year from shipment date Numerical values are subject to normal manufacturing tolerances, color 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.

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.



Ameron U.S.A. • 13010 Morris Rd, Suite 400, Alpharetta, GA 30004 • (678) 393-0653 Ameron B.V. • J. F. Kennedylaan 7, 4191 MZ Geldermalsen, The Netherlands • (31) 345-587-587