



**american coating technologies**  
www.amcoating.com

# Product Technical Data

## AM 3310 Protective Coatings

### Product Description

AM 3310 protective coatings consistently produces products of exceptional chemistry delivering the best in corrosion protection, while being safe for our environment and extremely user friendly. AM 3310 is 100% solids, sprayable, industrial protective coating specifically for metal and concrete substrates.

AM 3310 is a high cross-link density; ceramic-filled novolac coatings that is designed to provide superior corrosion protection within the aggressive environment of the petroleum industry. The solids content and morphology make AM 3310 an excellent tank, vessel, pipe and spill internal lining system, specifically to address high heat and abrasive services.

### Chemical Resistance:

Ammonium Hydroxide  
Aromatic & Aliphatic Solvents  
Black Liquor  
Butyl Acetate  
Butyl Carbitol  
Chlorinated Solvents (Except Methylene Chloride) Chlorides  
Chromic Acid up to 30%  
Hydrochloric acid (up to 100%)  
Hydrogen Sulfide  
Lithium Chloride  
MEK  
MSEA  
Mineral Acids  
Nitric Acid up to 10%  
Organic Acids (Many)  
Phosphates  
Phosphoric Acid up to 100%  
Potassium Hydroxide  
Salts  
Sodium Hydroxide  
Sodium Hypochlorite up to 10.5%  
Sulfides  
Sulfuric Acid up to 98%  
White Liquor  
Water—fresh, waste, non-potable

### Color:

Light Green, Off White (Semi-Gloss)

### Package:

1, 2, 4, and 50 US gallon kits

### Mix Ratio (By Volume):

3:1

### Coverage per gallon (Theoretical):

160 sq. ft. @ 10 mils thickness

### Coefficient of Expansion:

1.4

### Flash Point:

> 250°F (121°C)

### Pull-Off Abrasion 1000 cycles

69mg loss

### Recommended Thickness:

Maybe applied in single or multi coats to an optimum 10-25 mils TDFT. For high abrasion services film build up to 40 mils is acceptable

### Features & Benefits:

- 100% Solids, No VOC's
- Superior life, excellent long term chemical resistance
- Superior abrasion resistance
- Steel and concrete containment sites

### Specific Gravity:

Resin: 172  
Hardener: 1.03

### Volatile Organic Compounds (VOC):

0 grams/liter

### Weight Per Gallon:

11.55 lbs.

### Pot Life:

@ 40°F (4°C) 50 minutes  
@ 75°F (24°C) 30 hours  
@ 92°F (33°C) 314 minutes

Note: Do not keep the blended coating in the original container unless immediate use is planned. Otherwise,

### Service Temperature:

Dry Service 300°F (149°C)  
Spill/Splash 300°F (149°C)  
Immersion Services\* 275°F (135°C)

\*Immersion with solvents, mineral acids, alkaline, aggressive pressure or if over 275° Contact factory.

### Cure Time (AT 70°F or 21°C):

Re-coat Window 1-1 1/2 hours  
Light Loading 12 hours  
Immersion (Aqueous) Service 30 hours  
Full Cure 7 days

### Application Equipment:

Airless spray system, 56:1 higher recommended.  
Hoses should be 3/8" ID no longer than 50' for additional lengths use 1/2" ID. Monitor product temperature when product exceeds 52°C/125°F stop and flush pump and lines with either MEK or MIBK. Plural Component equipment is also highly recommended.

### Thinning:

Thinning is not normally recommended, however for specific spray application SC-3300 may be thinned up to 5% with either MEK or MIBK.

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### APPLICATION GUIDELINES:

#### Physical Properties:

##### Adhesion Strength:

Test Method: ASTM D 4541  
Typical Value: 3,200 PSI

##### Abrasion Resistance:

Test Method: ASTM D 4060 CS-17  
1000 gram load, 1000 cycles  
Typical Value: 69 mg loss

##### Exterior Exposure:

Exposed in Florida facing 45°  
South for 3 years  
No effect on film integrity or adhesion. Film yellow.

##### Humidity Resistance:

Test Method: ASTM D 2247, 1000 Hours  
Typical Value:  
No effect on film integrity or adhesion.  
Less than 1/32" rust creep-age at scribe.  
Less than 0.5% rusting at edges

##### Impact Resistance:

Test Method: ASTM D 2794  
Typical Value: 80 inch-pounds

##### Moisture Permeability:

Test Method: ASTM E 96  
Typical Value: 0.06 Perms

##### Salt Fog Resistance:

Test Method: ASTM B 117, 2000 Hours  
Typical Value:  
No Effect on film integrity or adhesion.  
Less than 1/16" undercutting at scribe.  
Less than 0.5% rusting at edges.

##### Moisture Permeability:

Test Method: ASTM E 96  
Typical Value: 0.06 Perms

##### Tesile Strength:

Test Method: ASTM D 2379  
Typical Value: 2,550 psi

##### Flexural Strength (Yield Strength):

Test Method: ASTM D 790  
Typical Value: 9,000 psi

##### Hardness (Durometer):

Test Method: ASTM D 2240 (Type D)  
Typical Value: 85

##### Water Immersion :

Test Method: ASTM D 1308, 2 Years  
Typical Value: No Effect