

# **Product Description**

AM 3470 is a fast setting Novolac epoxy coating, 100% solids and completely non-hazardous. AM 470 is the ultimate coating for repairs and rehabilitation for pipelines operating at maximum temperatures up to 100°C (212°F). This two-part, solvent free epoxy can easily achieve a dry film thickness of up to 40 mils with one pass. This product offers superior adhesion and abrasion resistance.

# **Product Applications**

- Girth welds, valves, fittings, bends, and odd shapes
- Rehabilitation and repair of pipelines, new pipelines, or any other metal substrate needing corrosion protection

# Adhesion Strength:

ASTM D 4541 3,000 PSI

# Abrasion Resistance:

ASTM D 4060 CS 17 WHEEL 1000 CYCLES 1 KG 42MG

Rockwell Hardness: ASTM D 2240 80

Compression Strength: ASTM D 695 16,000PSI

Flexural Strength D 790 13,000PSI

Tensile Shear Strength:<br/>ASTM D 10023,500PSI

Specific gravity: ASTM D 3289-03 1.47

## **Compressive Strength:**

ATSM C-109 15,500 psi

Hardness: ASTM D-2240 85 Shore D

Resistance to Acids & Alkalies: ASTM C-481 Excellent

Thin Film Water Absorption:ASTM D-570-981.44 average weight gain

**Cubed Water Absorption After Immersion:** ASTM C 642-82

Dielectric Strength (in oil): ASTM D-149 746.83 volts/mil

## Adhesion to FBE: ASTM D 4541 Greater than 2,200 psi

Adhesion to Bare Steel: ASTM D 4541 Greater than 2,200 psi

Impact Resistance: ASTM G-14-88 72 in-lbs./8.13 joules

0.6°/pd

#### Flexibility: NACE RP-0394

Tabor Abrasion CS-17 Wheel: ASTM D-4060-95 1785 cycles/mil

### Catholic disbondment @ 28 days Temp 195°F:

ASTM-G95 Less than 10 mm disbondment

### **Product Guide:**

Surface profile 2.45-4.0 mils; 63-101 microns Surface preparation SA 2 ½, SSPC-10-near white, SSPC-SP5-white Color Beige Single coat thickness: Manually applied Spray applied30+ mils 40+ mils Recoat Interval15 min@45°F; 10 min@70°F; 7 min@100°FClean up MEK

#### Maximum operating temperature: 212°F (100°C)

Compatible line coatings: FBE, CTE

Mixing Ratio by Volume: 3 part A: 1 part B

# AM 3470 Fast Setting Novolac Epoxy Coating

# **Product Features and Benefits**

- 100% Solids, Epoxy Novolac
- NO VOCs and NO ISOCYANTES
- Novolac Chemistry-designed for pipeline operating temperatures up to 100°C (212°F)
- Superior abrasion resistant properties
- AM 3470 can be spray or hand applied-field work made easier
- Superior bonding to bare steel and FBE
- Excellent cathodic disbondment properties, adhesion, and flexibility

## **Mixing Ratio by Weight:**

5 part A: 1 part B

### **Cure Schedule:**

Pot life @ 45°F	25 minutes	
Pot life @ 70°F	12 minutes	
Pot life @ 100°F	4 minutes	
Gel time @ 45°F	30 minutes	
Gel time @ 70°F	15 minutes	
Gel time @ 100°F	12 minutes	
Dry time @ 45°F	4 hours	
Dry time @ 70°F	1 hour	
Dry time @ 100°F	30 minutes	
65 Shore D reading @ 45°F	3 hours	
65 Shore D reading @ 70°F	2 hours	
65 Shore D reading @ 100°F	30 minutes	
80 Shore D reading @ 45°F	72 hours	
80 Shore D reading @ 70°F	6 hours	
80 Shore D reading @ 100°F	2 hours	
Application temp range 38°F – 150°F		

### Shelf Life:

1 year

## Typical Application:

Theoretical Coverage Rates: 425 mil-sq. ft./liter 1605 mil-sq. ft/US gallon 1.0 mm-m2/litre

### **Recommended Film Thickness:**

Wet: 8 to 12 mils per coat two coats recommended Dry is the same because this is 100% solids

# Product Technical Data

## AM 3470 Instructions:

1) APPLICATION GUIDE: Spray Grade: Plural component spray system-Tip size .027 – .037 Brush Grade: Brush or Roller

2) TEMPERATURE CONSIDERATIONS: If the surface to be coated is below 10°C (50°F), preheating of the substrate is recommended. Preheat temperatures should not exceed 93°C (200°F) prior to the application.

3) STORAGE and HANDLING: For optimum performance, store R3470 products in a dry, well ventilated area. Maintain products in original packaging and sealed until just before use. Avoid exposure to direct sunlight, rain, snow, dust, or other adverse environmental conditions or contaminates.

4) SAFETY: Mixes and applications of this product present a number of hazards. Read and follow the hazard information, precautions and first aid directions on the individual product labels and material safety data sheets before using. While all statements, technical information, and recommendations contained herein are based on information our company believes to be reliable, nothing contained herein shall constitute any warranty, express or implied, with respect to the products and/or services described herein and any such warranties are expressly disclaimed. We recommend that the prospective purchaser or user independently determine the suitability of our product(s) for their intended use. No statement, information or recommendation with respect to our products, whether contained herein or otherwise communicated, shall be legally binding upon us unless expressly set forth in a written agreement between us and the purchaser/user.

Recommended Tip Sizes		
Tip Size	Pipe Size (DN)	Flow Rates
331	To 12" (DN300)	19 tip=1.1 L/min.
419/431	12"-16" (dn300-400)	31 tip=2.8 L/min.
519/531	16″-24″ (DN400-600)	Note: fluid pressure at tip approx. 3,500psi
619/631	24"-48" (DN600-1200)	531

## NOTICE TO BUYER: DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY

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