

Product Technical Data

Product Description

AM 3470R is a fast setting Novolac epoxy coating, 100% solids and completely non-hazardous. R3470 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.

Physical Properties:

Specific Gravity:

Test Method: ASTM D 3289-03 **Typical Value:** 1.47

Compressive Strength:

Test Method: ATSM C-109 **Typical Value:** 15,500 psi

Hardness:

ASTM D-2240

Test Method: **Typical Value:** 85 Shore D

Resistance to Acids and Alkalies: ASTM C-481

Test Method: **Typical Value:** Excellent

Thin Film Water Absorption:

ASTM D-570-98 Test Method: **Typical Value:** 1.44 average weight gain

Cubed Water Absorption After Immersion: ASTM C 642-82 Test Method:

Dielectric Strength (In Oil): Test Method: **ASTM D-149**

Typical Value: 746.83 volts/mil Adhesion To—FBE:

Test Method: **ASTM D 4541** Typical Value: Greater than 2,200 ps

Adhesion To—Bare Steel:

Test Method: **ASTM D 4541 Typical Value:** Greater than 2,200 psi

Impact Resistance:

Test Method: **Typical Value:** ASTM G-14-88 72 in-lbs/8.13 joules

Flexibility: Test Method: **Typical Value:**

NACE RP-0394 0.6°/pd

Tabor Abrasion CS-17 Wheel:

ASTM D-4060-95 Test Method: **Typical Value:** 1785 cycles/mil

Cathodic disbondment @ 28 days Temp 195°F: Test Method: ASTM-G95 **Typical Value:** less than 10 mm disbondment

Product Guide:

Surface profile 2.45-4.0 mils; 63-101 microns Surface preparation SA 2 1/2, SSPC-10-near white, SSPC-SP5-white Color Beige Single coat thickness: Manually applied Spray applied30+ mils 40+ mils Re-coat Interval15 min@45°F; 10 min@70°F; 7 min@100°F Clean up MEK.

Maximum operating temperature212°F (100°C): FRF. CTF

Compatible line coatings:
Mixing Ratio (By Volume):
Mixing Ratio (By Weight):

Shelf Life: 1 year

Application temp range: 38°F – 150°F

Cure Schedule @ 45°F:

Pot life: Gel time: Dry time: 65 Shore D reading: 80 Shore D reading:

Cure Schedule @ 70°F:

Pot life: Gel time: Drv time: 65 Shore D reading: 80 Shore D reading:

15 minutes 1 hours 2 hours 6 hours

Cure Schedule @ 100°F: Pot life:

Gel time: Dry time: 65 Shore D reading: 80 Shore D reading:

Recommended Tip Sizes:

Tip Size: 331 Pipe Size (DN): Flow Rates: Tip Size: 419/431 Pipe Size (DN): Flow Rates: Tip Size: 519/531 Pipe Size (DN): Flow Rates:

Tip Size: 619/631 Pipe Size (DN): 19 tip=1.1 L/min. 12"-16" (dn300-400) 31 tip=2.8 L/min.

To 12" (DN300)

16"-24" (DN400-600) Note: fluid pressure at tip approx. 3,500psi

24"-48" (DN600-1200)

AM 3470R Fast Setting **Novolac Epoxy Coating**

Applications:

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

3 part A: 1 part B

5 part A : 1 part B

25 minutes

30 minutes

4 hours

3 hours

72 hours

Product Features & Benefits

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

Physical Properties:

Theoretical Coverage Rates: 425 mil-sq. ft./litre 1605 mil-sq. ft/US gallon

1.0 mm-m2/litre

Recommended Film Thickness:

Wet: up to 40 mils per coat Dry: up to 40 mils per coat

Recommended Film Thickness:

Spray Grade: Plural component spray system Tip size .027 – .037 **Brush Grade:** Brush or Roller

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.

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.

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.

12 minutes

4 hours 30 minutes

12 minutes 30 minutes

4 minutes