

Hi-Temp Insulation and Corrosion Protection Coating



*EXCELLENT CHOICE FOR COATING
UNDER INSULATION (CUI)*

american coating technologies

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Industrial Coating Applications—
Done Better, Faster and with
the Best Return On Investment!

American Coating Technologies LLC's vision is to offer our customers the most advanced coating and containment solutions available today, providing them with long-term performance so that they may excel in their competitive global marketplace.



AM 82700H Series Inert Multipolymeric Matrix DTM

827-HB Series HiTemp is a unique high-build single package inert multipolymeric matrix coating designed to provide heat stability and withstand severe cyclic conditions up to 1200°F. It is an excellent choice for coating under insulation (CUI), stacks, chemical plant components, refineries and other areas that require corrosion protection and see elevated temperatures up to 1200°F. It is specifically formulated to allow application to marginally prepared surfaces at dry film thicknesses up to 16 mils. 827-HB Series provides the best characteristics of a premium high temperature coating in a Dry-Fall "Spray-Safe" formula that eliminates overspray worries and meets SS-4, SS-5, CS-6 and CS-8 of NACE SP0198-10.

AM 82700H is your number one (#1) defense against CUI:

- High performance high temperature protection in a "spray-safe" dry-fall formula
- Withstands extreme thermal shock environments up to 1200°F
- High build inert multi-polymeric matrix DTM
- Hot apply up to 750°F
- Available colors in black, gray and aluminum

Hi-Temp Insulation and Corrosion Protection Coatings—Excellent choice for coating under insulation.

Under insulation corrosion is the hidden "silent-killer" and one of the biggest problems and expenses for petroleum industry, chemical manufacturing, chemical and petroleum storage, asphalt industry and the food industry. Corrosion never sleeps, it is present in every industry, and every part of the country, corrosion is present in every season and all types of insulation.

We have the cure—the AM 82700H series—it's not just another coating or a look alike. AM 82700H is the 'cure' for the "silent-killer"—the "solution" for under insulation corrosion (CUI).

Hi-temp AM 82700H is an unparalleled 1200°F/649°C single package DTM that is ideal for CUI or where extreme thermal shock resistance is necessary. It is a high-build and surface-tolerant coating. 827-HB Series provides the best characteristics of a premium High Temperature Coating in a Dry-Fall "Spray-Safe" formula that eliminates overspray concerns.

Performance Data:

CUI Cycle Testing:

1 Cycle = 1 Week: 16 hours @ 500°F/260°C, cold water quench followed by 8 hours in boiling water 212°F/100°C. Repeat for 5 days, then 2 days @ 500°F/260°C followed by cold water quench.

Results (16 Cycles): No cracking or blistering in the field. No loss of adhesion, 5A per ASTM D 3359

Thermal Shock Resistance:

A set of panels prepared per Highland specifications (12 mils DFT) were subjected to 1200°F/649°C for 24 hours and immediately submerged into room temperature water. The coated panels were inspected under a microscope and checked for dulling, micro-cracks, and adhesion. The panels were then exposed to 24 hours of salt spray testing (ASTM B117) and examined for rust or any corrosion attack.

Method: ASTM D2485

Result: (30+ Cycles): Pass - no micro-cracks or blistering in the field, no corrosion present

Salt Spray:

Coatings were applied @ 12-16 mils DFT respectively per manufacturer recommendations. Panels were evaluated every 100 hours.

Highland vs. Brand "X" Salt Spray Comparison:

Mils	AM 82700H	Competitor Brand "X"
@12 mils DFT	AM 82700H passed each evaluation with no blistering. At 600 hours a 0.1 mm creepage was noted. At 700 hours the final creepage was noted at 0.1 mm.	Brand "X" passed each evaluation with no blistering. At 300 hours a 0.1 mm creepage was noted. At 700 hours heavy rusting was noted across the entire field of the panel.
@16 mils DFT	AM 82700H passed each evaluation with no blistering. No creepage from the scribe or rusting in the field noted after 700 hours.	Brand "X" passed each evaluation with no blistering. No rusting in the field was noted. At 700 hours creepage from the scribe was noted at 0.1 mm.