

## REVOLUTIONARY INDUSTRIAL INSULATION TO MITIGATE CONDENSATING PIPES

Heat-Flex Advanced Energy Barrier (AEB) is a high-performance thermal insulative coating engineered to address the unique challenges of the water and wastewater industry — particularly in managing condensating pipes. Heat-Flex AEB offers a modern alternative to traditional coatings by eliminating the need for bulky mineral-based insulation. When applied directly to piping systems, it forms a seamless, protective barrier that resists moisture, prevents corrosion and maintains thermal efficiency. This solution is ideal for pipes that experience a buildup of condensation, where traditional insulation can trap moisture and accelerate degradation.

### BENEFITS



#### Eliminates CUI

- Removes the need for traditional insulation system when directly applied to primed steel assets.
- Removes the corrosion zone between traditional insulation and the substrate, a primary cause of corrosion under insulation (CUI).
- Compatible with the entire Heat-Flex CUI-Mitigation portfolio.



#### Sustainable and Environmentally Friendly

- Reduces environmental footprint by eliminating the manufacturing, shipping and dry storage of traditional insulation materials.
- Extends the lifespan of steel assets, minimizing the need for steel replacement and associated environmental costs.



#### Superior Thermal Retention

- Process heat retention is comparable to traditional in-service insulation systems.
- Maintains consistent thermal efficiency, even in extreme environments up to 350°F (177°C), with excursions to 400°F (204°C).



#### Ease of Application and Maintenance

- Can be applied using commercially available spraying equipment, reducing installation time and labor costs.
- Allows for hot application, enabling continuous operations during maintenance up to 300°F (148°C).



#### Enhanced Safety

- Reduces burn risk for employees working in close proximity to hot assets.
- Simplifies maintenance time with on-site pre-assembly applications, reducing the need for extended permitting.

### FROM SPEC TO PROTECT

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## KEY HIGHLIGHTS

- **Lowest Thermal Conductivity:** Less than 0.05 W/mK, providing excellent insulation.
- **Service Temperature:** Continuous up to 350°F (177°C), with excursions to 400°F (204°C).
- **High-Film Build:** Apply 150-200 mils (3810-5080 microns) dry film thickness per coat, building to the desired thermal efficiency with multiple coats.
- **Compatibility:** Works effectively with primers like Heat-Flex® 750 and Heat-Flex® ACE.
- **Sustainability:** Eliminates the need for traditional insulation systems, reducing environmental impact.
- **Energy Costs:** Keeps hot things hot and cold things cold, optimizing energy use and reducing emissions.
- **Reduces Cold Wall Effect:** Smaller thermal swings across the substrate surface will reduce strain on linings.

## INDUSTRY APPLICATIONS

- Storage Tanks and Vessels
- Process Piping
- Valves and Fittings

## UNMATCHED DISTRIBUTION AND SERVICE

### Products You Need Right Now

Get the products you need with same- or next-day delivery and gain access to local inventory at more than 5,000 Company-owned distribution points in North America.

### Technical Service for Optimal Applications

Our Technical Service team brings extensive technology and product knowledge, as well as manufacturer equipment training, to ensure proficiency throughout the entire coatings process.

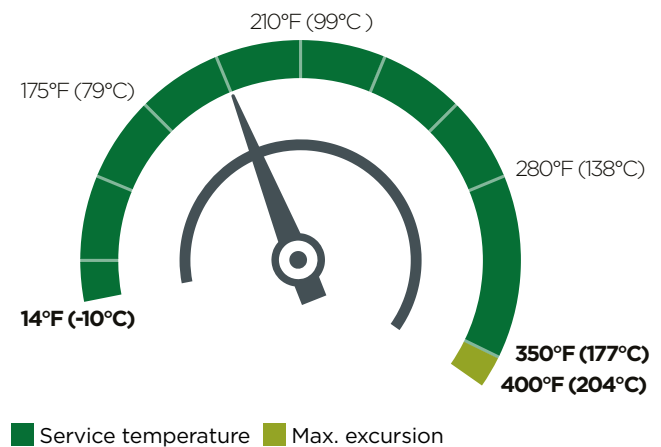
## THE SHERWIN-WILLIAMS DIFFERENCE

Sherwin-Williams Protective & Marine delivers world-class industry subject matter expertise, unparalleled technical and specification service, and unmatched regional commercial team support to our customers around the globe. Our broad portfolio of high-performance coatings and systems that excel at combating corrosion helps customers achieve smarter, time-tested asset protection. We serve a wide array of markets across our rapidly growing international distribution footprint, including Energy, Water & Wastewater, Bridge & Highway, Steel Fabrication, Flooring, Manufacturing & Processing, Fire Protection, Marine, Rail and Power.

## KEY PRODUCT ATTRIBUTES

- **Engineering Solution:** Not just a paint, but a high-performance engineering solution.
- **Hot Application:** Can be applied to assets operating up to 300°F (148°C).
- **Replacement for Traditional Insulation:** Eliminates the need for mineral wool and cladding systems.
- **Innovative Formulation:** Acrylic waterborne base with insulating pigmentation.
- **Easily Repaired:** Damages can be easily repaired by utilizing a hand trowel application.
- **Superior Moisture Management:** Resists moisture penetration and retention, ensuring consistent thermal efficiency even during heavy rain and cleaning, with minimal water absorption and rapid water release.

## SUITABLE THERMAL EFFICIENCY RANGE



Use above 400°F is not recommended.

### North America

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