



InsulCorr™ TACC

Surface Tolerant Thermally Activated Composite Coating for CUI Protection

DESCRIPTION

InsulCorr™ TACC, is a single-component, zero VOC, self priming, high temperature coating system designed to protect carbon and stainless steel surfaces from atmospheric and corrosion under insulation.

TACC is designed for live hot CUI repair. TACC does not require the equipment to be brought offline and does not require dusty surface preparation by abrasive blasting. The activation temperature for TACC is between 158 – 280°F (70 – 138 °C). The latency of the single component cure reaction is triggered by heat. Once the coating is exposed to heat, the chemical cross-linking begins which means the higher the temperature the faster the reaction speed.

TACC provides high temperature corrosion resistance and performs very well in high temperature service environments exposed to thermal shock and thermal cycling of intermittent wet and dry conditions.

The superior adhesion and barrier property of the TACC technology makes it an excellent choice to reduce corrosion activity in under insulation service. The TACC technology retains its physical properties over time and will not degrade with high temperature service.

BENEFITS

- Insulated surfaces
- Hot piping
- Process vessels
- Refinery equipment
- Boiler casings
- Stacks
- Manifold
- Exhaust systems
- Jacketed tanks
- Exterior of duct work
- Geothermal piping

FEATURES

- Zero VOC
- Self priming
- Single component
- Apply by brush
- Surface tolerant
- Temperature resistant to 260 °C
- Fast drying

Physical Property

Physical Property	Result
Chemistry	Latent Curing Hybrid Epoxy
Gloss	Eggshell
Color	Charcoal
No. of Components	1
Priming	Self priming
Max Temperature (ASTM D2485)	260 °C
Solids Content	100 % by volume
Theoretical coverage	39.4 sqm/liter/25 microns
Abrasion resistance (ASTM D4080)	< 100 mg loss
Hardness (ASTM D2240)	76 Shore D

Application Property

Application Property	Result
Dry to Touch *temperature dependent	10 min to 2 hours
Return to Service *temperature dependent	within 30 min to 4 hours
Recommended Film Thickness	300 to 350 microns final DFT
Application Method	Short bristle brush
Number of Coats	2 coats may be required at higher temperatures

MIXING INSTRUCTION

Hand mix prior to use. Do not introduce heat to the coating prior to use, as the coating will begin to crosslink with heat. Use a short bristle brush to apply the coating. Depending on the substrate temperature the coating may be applied in a single coat to (12 to 25 mils) 300 to 625 microns.

At higher surface temperatures if blistering occurs during application, it is recommended to apply the coating in two thin coats.

SURFACE PREPARATION

- 1) Ensure that surface is clean, dry and uncontaminated.
- 2) Prepare the substrate surface in accordance with SSPC SP 1, 2, and 3 to ensure visual contaminants and hydrocarbons are removed. Remove loose rust or oxide by hand or power tool cleaning methods.

CLEAN-UP AND STORAGE

- 1) For clean up use only manufacturer's recommended products.
- 2) Once the coating is dry, the material must be abraded off.
- 3) Store between 10°C(50°F) and 25°C(77°F). DO NOT FREEZE. Use product within 6 months of receiving.

SAFE

Before using any products, please refer to the Material Safety Data Sheet (MSDS).

Wear eye safety protection, chemical resistant gloves. Use NIOSH approved cartridge type respirator or fresh air respirator.

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