

CORROSION UNDER INSULATION (CUI)

THERMACOAT - 400

ThermaCoat – 400 is a Water-borne two part thermally insulated liquid applied coating.

1. Water base low VOC
2. Apply with brush, roller and paint spray.
3. Can be applied while the assets are in operation.
4. Corrosion resistant
5. Thermal Insulation
6. Sustainable

What is corrosion under insulation (CUI)

When corrosion takes place on the surface under the insulation, it is known as corrosion under insulation (CUI). CUI is a major common problem on a worldwide basis, it is responsible for many major leaks that leads to health and safety incidents.



How CUI occur on insulated piping

Most pipes are made from low carbon or low alloy steel. Steel corrodes when it reacts with substances like water or moisture which acts as the electrolytes in a corrosion cell. CUI occurred under all types of insulation material (Fibrous, Granular and Cellular). Insulation material does not corrode steel, it is the space left open for moisture. The common insulation practice of using an insulation material covered by a jacket aid in allowing the moisture to get through via: Rainfall; Steam Discharge; Cooling Tower and Condensation.

SOLUTION – INSULATED COATINGS THERMACOAT - 400

With ThermaCoat – 400 the protective epoxy coating that can withstand temperature up to 400F is the insulation material. The coating will not leave space for moisture to occur on the steel surface. Advantages of ThermaCoat-400:

- Easier to apply than traditional insulation material
- No expensive downtime - apply while the assets are operating
- Sustainable and repairable; unlike traditional insulation, ThermaCoat - 400 can be re-applied over and over
- No insulation material to discard into a landfill
- No need for a corrosion resistant layer on the steel surface
- Environmentally Friendly water-borne system



Corrosion Under Insulation (CUI) can be prevented by using ThermaCoat-400