Tnemec has formulated a coating containing aerogel – the world’s best insulating solid – to produce Aerolon. This fluid-applied, thermal insulating coating offers protective characteristics that address the deficiencies found with conventional insulation, such as polyurethane foam and mineral wool.

Aerolon provides exceptional insulation qualities that reduce the formation of condensation by insulating cool metal substrates from warm, moist air. Ideal for areas such as processing equipment, pipe galleries, and inside elevated tank columns and pedestals (dry) where frequent condensation is a safety or corrosion concern. Applied as a complete system with corrosion-resistant primer and durable topcoat, Aerolon can help reduce the frequency and severity of condensation and prevent problems associated with corrosion under insulation (CUI).

**ADDITIONAL BENEFITS OF AEROLON**

**Resists Corrosion Under Insulation (CUI)**
Most conventional forms of insulation are not bonded directly to the substrate, thus creating air gaps where moisture can collect to initiate CUI. Aerolon bonds with high-performance primers to create a durable barrier that resists corrosion.

**Ultra-Low Heat Transfer**
Aerolon’s excellent thermal characteristics improve efficiency and reduce energy costs. Series 971 Aerolon Acrylic features a thermal conductivity of 35 mW/mK and an R-Value of 4.1 per inch, which is twice as efficient as other thermal coatings and comparable to most other forms of insulation.

**Worksite Safety & Protection**
The ability to minimize thermal conductivity or heat transfer from one side of a material to the other is a major factor in preventing work-related accidents. A substrate coated with Aerolon comfortably meets the 5-second safe touch burn protection factor referenced in ASTM C 1055 and C 1057.*

**Higher Build & Faster Application**
Aerolon can be applied in a high-build coat compared to other fluid-applied coatings. Yet, due to the coating’s low thermal conductivity, a much lower overall thickness is usually necessary. This makes application times faster, resulting in quicker return to service, much lower labor costs, and overall savings.*

*Contact your Tnemec representative for recommended film thickness and maximum application and operating temperatures.
FEATURE SAFE TOUCH PROJECT

When the wastewater treatment buildings in Crystal Lake, Illinois required maintenance, they turned to Tnemec to cover their floors, walls, ceilings and everything else in between. Part of the project’s scope was a concern of how to protect workers from five hot air blowers and their piping. The City of Crystal Lake needed a coating that would combat corrosion and assist in protecting personnel from the hot temperatures of the exposed equipment.

They chose to coat the blowers and associated pipes with Series 971 Aerolon Acrylic because of its “safe-touch” properties. After being hand-sanded and primed with a water-based epoxy coating, Aerolon was spray-applied while the blowers were still hot and followed by a finish coat of an acrylic polymer. The resulting surface was more durable and safe; less likely to create any work-related accidents.

KEY CHARACTERISTICS ENSURE EFFECTIVENESS

Aerolon’s physical characteristics, such as high-film build, excellent bonding, and customized aerogel particle size, create an ideal combination of thermal-efficient attributes. Whether stopping heat flow to improve efficiency or reducing the rate of heat transfer to protect personnel from burns, Aerolon is second to none.

In side-by-side comparisons, Aerolon’s beneficial combination of insulating and protective properties represent a more effective solution than virtually all other available options. To find out more, give us a call at 1-800-TNEMEC1 (1-800-863-6321) or contact your local Tnemec representative.