

Various Sugar Mill Units – Energy Retention and CUI Prevention

Client & Location: Pantaleón – Pánuco, Veracruz, Mexico

Date of Application: November – December 2017

Applicator: Thermal Coating Products SA de CV.

Coating: Mascoat Industrial DTI.

Application: Clarifiers (2), Evaporators (3), Heaters (2).

Reason for Application: Energy Retention and Personnel Protection

Thickness Applied: Clarifier and Evaporators – 80 mils (2 mm), Heaters – 120 mils (3 mm).

Application Notes: The application was made with the equipment out of operation, giving intervals of drying between layers of at least 4 hours considering the conditions of ambient temperature (22-26°C/71-79°F) and relative humidity of 51-70%. Per Mascoat's application guidelines, coats were done in 20 mil (0.5 mm) increments until desired thickness was achieved.

Amount of Material used:

- Evaporators – 13 cubetas
- Clarifiers – 18 cubetas
- Heaters – 8 cubetas.

Application Time: 7 days
Application Crew: 3 people

Client Conclusions:

- Coating provided sufficient energy retention and personnel protection
- Adheres to most substrates, increases efficiency, and saves energy
- Lightweight
- The coating provides a barrier between the substrate and the outside environment, preventing CUI and ongoing maintenance concerns.
- The long-lasting coating doesn't have to be replaced every few years like the conventional insulation that client was using previously, allowing for the client to gain their ROI in a short period of time.
- Because the coating is applied like paint, the application crew was minimal, and they could avoid using expensive, laborious scaffolding.
- The coating was easily applied to the complex geometry around valves and flanges.

