

Product Case History



Power Plant Stack

LOCATION: Key West, FL, United States

DATE OF APPLICATION: April 2017

MARKET: Power - Conventional

TYPE: Maintenance

OWNER: Florida Municipal Power Agency

PROJECT SIZE: 6,500 Square Feet

AREA COATED: Exterior Stack Components

SUBSTRATE: Ferrous Metal (Carbon Steel)

EXPOSURE: Exterior Weathering - severe industrial - seacoast and chemical environment

SURFACE PREP: SSPC-SP 6 (Commercial Blast)

PRODUCTS: Thermaline 4000, Carbozinc 11

PROJECT DESCRIPTION:

The Keys Energy Services Plant on Stock Island in Key West needed a high temperature service coating system with the ability to provide corrosion resistance due to the salt air environment and harsh environmental exposure from the South Florida sunshine. The stack has a maximum operating temperature of 500°F.

COATING SELECTION EXPLANATION:

Carbozinc 11 was recommended as the primer due to its time-tested corrosion resistance properties when applied to properly prepared steel substrates. When used in conjunction with recommended Carboline high temperature top-coats it can withstand continuous operating temperatures up to 1000°F (538°C).

Thermaline 4000 was recommended as a stable inorganic inert polymer when used with Carbozinc 11 provides high temperature resistance up to 800°F (426°C). Thermaline 4000 does not require heat cure, rapidly curing hard under normal ambient conditions (humidity greater than 30%).

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ADDITIONAL PHOTOS:

