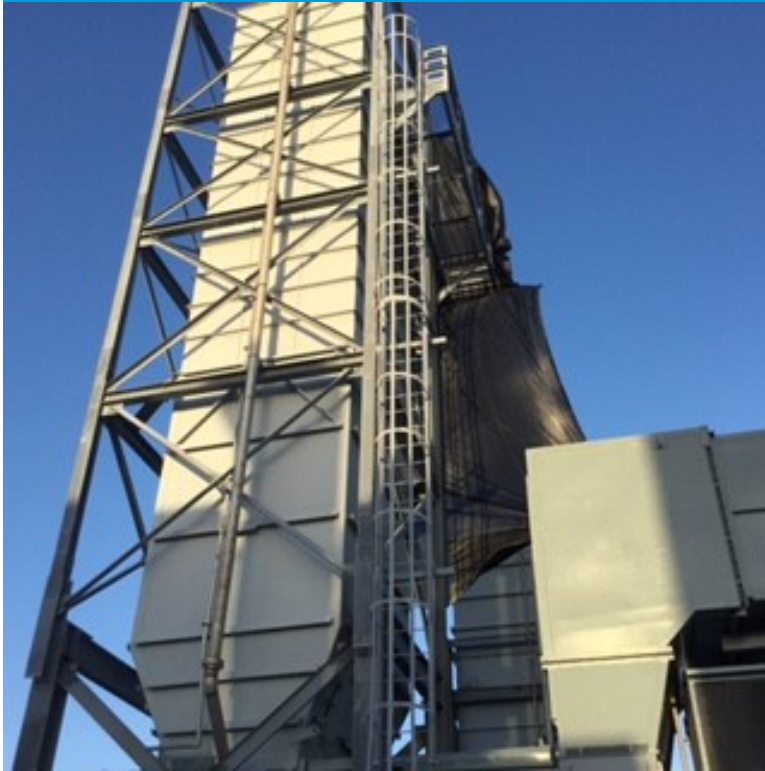


# Product Case History



## Power Plant Stack

**LOCATION:** Key West, FL, United States

**DATE OF APPLICATION:** April 2017

**MARKET:** Power - Thermal Fuel

**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%).

# Power Plant Stack

ADDITIONAL PHOTOS:

