



Material Technologies
Solving Tough Problems

StackGard™-255SQW

Corrosion Protection for Chimneys in Flue Gas Systems

- Resistant to SO₃, SO₂, HCl, NO_x gases
- Excellent performance up to 255°C (491°F)
- Resistant to dust abrasion
- Simple application by air spray
- Easy inspection and maintenance

Product Description

StackGard-255SQW is a two component, high temperature corrosion protection system, for the chimneys of industrial plants.

The flue gases found in cement plants, metal smelters, waste incineration, power generation and oil refineries, contain SO₃, SO₂, HCl, NO_x and dust, they are extremely corrosive and abrasive. StackGard-255SQW has demonstrated outstanding performance on steel chimneys exposed to this severely aggressive environment.

Applications

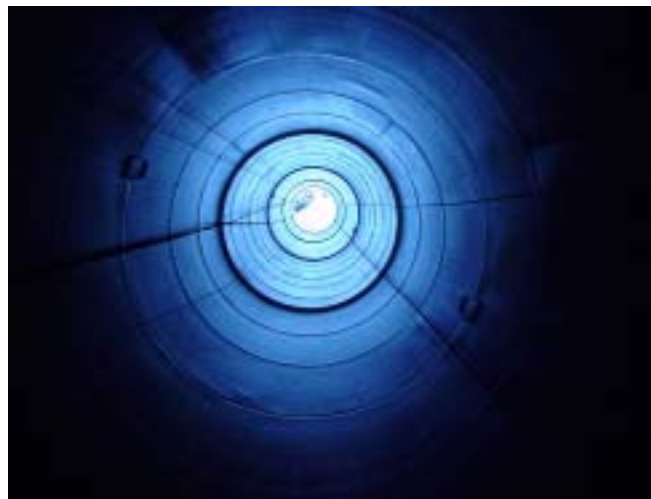
The main areas of application are on the inside surfaces of steel chimneys connected to:

- Bag houses, electrostatic precipitators and ducts in cement plants and waste incinerators.
- Gas scrubbers, ducts and fans in power generation plants and oil refineries.
- Ducts, filters and scrubbers in copper, zinc or lead smelters.

Performance

StackGard-255SQW has a proven performance in the steel areas exposed to the hot flue gases of industrial facilities. It protects the steel from corrosion, abrasion and impact at temperatures ranging from ambient up to 255°C.

StackGard-255SQW will also resist severe chemical and salt corrosion in industrial and marine environments due to its tough impervious thermoset nature and a strong chemical bond to the substrate.



Large Stack Coated With StackGard-255SQW

Installation

StackGard-255SQW is supplied as two components system that is mixed in a fixed volume ratio prior to application. Mixed material is applied by air spray, on a sandblasted, dry steel surface. The material cures at room temperature after 12 hours into a dry and tough coating. At this stage it can be inspected for thickness and integrity and any defect can be recoated.

Once the coating inspection is satisfactory, the final cure is performed at 80 to 180°C for few hours. Typically this is done using the hot flue gases during the start up of the process.

Additional Information

The shelf life of both components of StackGard-255SQW will be at least one year. The material shall be stored in a cool and dry area.

The material contains solvents, handle with care, keep sealed, avoid excessive exposure to inhalation and body contact. Use in well ventilated areas, for indoor applications use forced ventilation.

See the corresponding MSDS sheets.

