

CASE STUDY
P. 1 of 1
Boiler Insulation Trial with
Thermal Imaging

GEOGRAPHICAL AREA:

South Africa

ISSUE:

Insulate Boiler to Safe Touch
Temperature

SOLUTION:

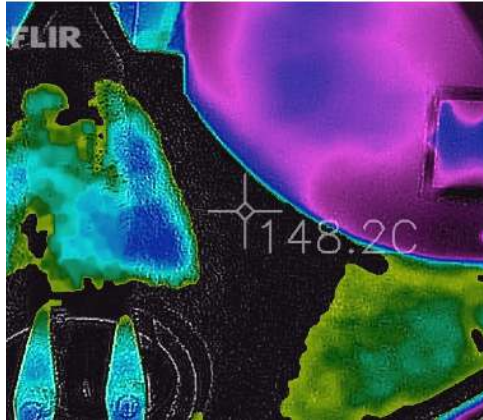
Heat Shield™ EPX-H2O thermal
insulation & corrosion prevention
coating.

Coverage: 6-coats

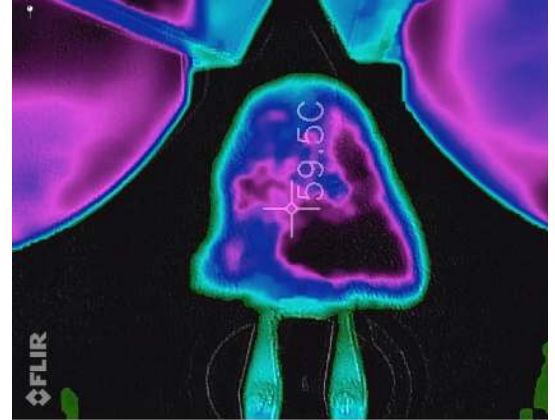
RESULTS:

- ✓ Surface temperature reduction of -88.7C (-159.7F) at 6 coats.
- ✓ Quickly lowered surface to a safe-to-touch temperature
- ✓ Reduced energy consumption.
- ✓ Reduced heat radiated from boiler into the surrounding area.
- ✓ Easily sprayed onto non-flat surfaces
- ✓ Long lasting - 10+ years.

Award Winning Energy Saving and Asset Protection Coatings



**Uncoated Boiler Area
148.2C (298.8F)**



**EPX-H2O Coated Boiler Area
59.5C (139.1F)**

During a recent thermal insulation trial on a boiler, Distributor SynaAfrica illustrated the power of the Heat Shield™ EPX-H2O for an industrial energy management company. The trial illustrated both the energy saving and safety benefits of the product.

The application was performed on a section of the boiler that was 148.2 C (298.8F) and the goal was to bring the surface to a safe-to-touch level. After a 6-coat application, the coating reduced the surface temperature to 59.5C (139.1F), more than reaching the goal to safe touch and also illustrating the insulating and energy saving benefits of the coating as well as the ease of application to both flat and non-flat surfaces.

	BEFORE COATING	AFTER 6-COATS	DIFFERENCE
Celsius Temperature	148.2 C	59.5 C	-88.7 C
Fahrenheit Temperature	298.8 F	139.1 F	-159.7 F
Heat Loss in BTU/h.ft2	575.92 BTU/hr.ft2	112.95 BTU/hr.ft2	-462.97 BTU/hr.ft2

Boiler end cap with
EPX-H2O coated area

