

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-H20 thermal insulation & corrosion prevention coating.

Coverage: 6-coats

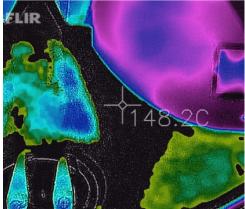
RESULTS:

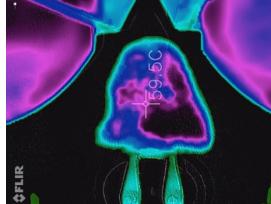
- ✓ Surface temperature reduction of −88.7C (-159.7F) at 6 coats.
- ✓ Quickly lowered surface to a safe-to-touch temperature
- ✓ Reduced energy consumption.
- Reduced heat radiated from boiler into the surrounding area.
- ✓ Easily sprayed onto non-flat surfaces
- ✓ Long lasting 10+ years.

Sustainability Simplified.TM Very Simple.



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-H20 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

