Case study 195

Heater hire cuts screed drying times to keep building project on track

Now more than ever, construction companies are under great pressure to complete building projects on time and ensure that any potential causes of delay are quickly addressed. One of the most common reasons for deadlines being pushed back is a need for screed to dry properly, which can lead to developments grinding to a halt and prevent labourers from accessing the impacted areas.

This was the situation facing a contractor responsible for upgrading a large sports complex in Cambridgeshire and prompted them to get in touch with Andrews. Our client had initially hired some DE190 electric heaters from us to assist the drying of resin in a toilet block on site, but they now required a high capacity heating solution for the project's next phase.

Before a proper floor surface can be laid, the screed foundation must be cured correctly. Traditionally, this process takes around seven days per centimetre of screed thickness which can be accelerated if internal temperatures are increased.

The customer was looking to reduce the drying time of screed set on the main sports hall without affecting the quality of the finished product. After visiting site and assessing the application's dimensions, it was decided that a single FH2000 indirect fired heater could deliver the high volumes of warm air needed to complete the task.

By taking this course of action, we were able to preserve the integrity of a screed floor spanning several thousand square metres. This helped bring forward the 'walk on' time by several days without causing any cracking, shrinkage or other damage often associated with malpractice.

Nominal heating duty: 200 kW 682,400 btu
Fuel Tank Capacity: 18.2 l/h
Air flow (max): 12,000 m³/h
Fuel Consumption: 18.2 l/h
Power supply: 415 V 3 ph +E 50 Hz Run 7.5 A
Typical heated area: 4,108 m³
Noise level (max): 76.5 dBA @ 1 metre
Fuel type: Gas Oil
Weight (kg): 545 kg
Tank capacity: Separate fuel buggy/tank required
Plug type: BS4343 3 ph 4 pin 32 A
Dimensions (L x W x H): 2,400 x 800 x 1,370 mm
Duct length (max): 40 metres
Control: Manual (external controls available)
Generator size: 25 kVA
Flue size (min): 1 metre x 200 mm
Duct size: 300 mm x 4 or 600 mm x 1
Fuel tank: Remote fuel tank required