

Technical information

TOPFLOW Screed C
using **CHRYSO**FLOOR®
technology

Underfloor heating for Topflow Screed C

Topflow Screed C is made from a cementitious binder, special additives and selected aggregates. These are mixed with clean potable water to produce a flowing pumpable screed (manufactured to BSEN13813:2002). This is ideal for applications over warm water and electrical underfloor heating systems.

Topflow Screed C fully envelopes the heating pipe eliminating air voids and honeycombing. This enhances heat transfer between the pipe and the screed giving higher thermal conductivity than conventional sand cement screeds.

- Sand cement screeds (1.1w/mK)
- Topflow Screed C (1.7w/mK to 2.9w/mK dependent on material package)

Nominal covering to the pipe (30mm) results in improved reaction times over traditional sand cement coverings usually placed at 60mm cover to the pipe.

KEY INSTALLATION POINTS

Pipes must be securely fixed to prevent floatation and lifting during the application of the screed. Pipes should be pressurised in accordance with BS1264:2001:4.

COMMISSIONING PROCESS

The commissioning process should not be started until the screed is a minimum of 7 days old. Starting the heating cycle too early may cause thermal shock and cause the screed to crack. Please follow the guidelines on the right.

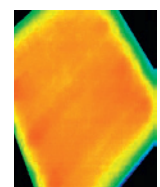
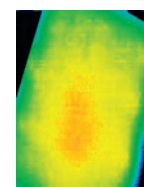
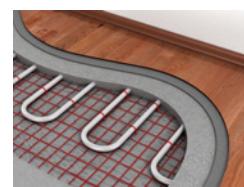
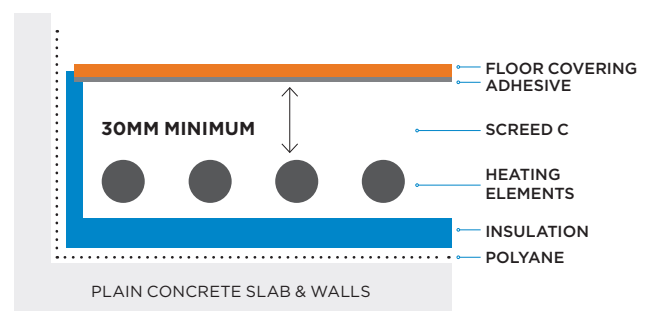
From Day 7

- Day 1 - set temperature to 5°C above ambient
- Day 2 onwards - increase temperature by 5°C a day up to a running temperature of 40°C
- Hold for 3 Days
- Reduce by 10°C per day down to 20°C
- Turn heating off for two days
- Check moisture (75%RH as standard), typically this is checked using a hair hygrometer
- Install floor coverings.

JOINTING

Bays of up to 100m² can be installed over underfloor heating pipes, however joints should be formed between different heating zones operating off separate manifolds and between areas of heated and unheated floors.

TYPICAL FLOOR MAKE UP INCLUDING UNDERFLOOR HEATING PIPES



TOPFLOW CHRYSO
SCREED C

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