

Heidelberg Materials EasyFlow Screed CT C20 F4

Technical data sheet

Heidelberg Materials EasyFlow screed is a free-flowing, cement-based material suitable for all domestic and commercial floors.

It provides a smooth substrate surface which supports the application of all floor finishes.

Heidelberg Materials EasyFlow screed is pump-applied, - meets the requirements of EN 13813 CT C20 F4 and is suitable for unbonded or floating floors.

Benefits

- Self-compacting
- Can be laid in thinner sections than traditional sand and cement solutions, without any impact on performance
- Quick to lay (up to 100 m² per hour)
- Requires fewer construction joints than other traditional solutions due to low shrinkage
- Supports floating construction over most rigid insulation/acoustic matting¹
- Improved thermal conductivity, providing more effective heating and cooling when used with underfloor heating, compared with other traditional solutions
- Only requires a nominal 30mm covering on top of underfloor heating pipes
- Doesn't require reinforcement
- It is non-combustible (category A1 in accordance with EN 13501 - A1:2009)
- Delivers 21-28 day drying times², dependent on conditions
- We recommend the room is sealed and not trafficked for 48 hours, though light foot traffic may be possible earlier dependant on site conditions
- Partitions can be erected one week after installation

For underfloor heating applications, forced drying can proceed two weeks after installation by commissioning the system and gradually increasing the operating temperature.

Please consult your underfloor heating technical support.

Heidelberg Materials EasyFlow screed

Technical data sheet

Technical data

Strength: C20-F4

Appearance/colour: Light grey fluid mortar

Wet density: 2000-2,200kg/m³

Dry density: >1850kg/m³

Specification	
Flow range	270mm ± 20
Maintenance of fluidity	2 hours
Compressive strength at 28 days	20 N/mm ²
Flexural strength at 28 days	4 N/mm ²
Wet density	2,100-2,200 kg/m ³
Drying shrinkage at 28 days	Typically < 500µm/m
Thermal conductivity	Up to 2.9 w/mK
Fire rating (BS 476:Part4)	Non-combustible

Minimum thickness	
Unbonded	Nominal 50mm, ensuring 30mm minimum coverage of underfloor heating pipes
Floating over thermal insulation	Domestic - 35mm Commercial - 40mm
Over underfloor heating pipes	30mm

Heidelberg Materials EasyFlow screed

Technical data sheet

Maximum thickness

Recommended to be no more than 50mm, although can go up to 70mm in specific cases but this may impact on drying times.

Drying times

Depending on the room environment, geographical setting and time of year, a Heidelberg Materials EasyFlow screed depth of up to 50mm will be ready to receive floorcoverings in 21-28 days³. Depths in excess of 50mm will take longer to dry. It is vital to check manufacture guidance regarding floorcovering installation as it will specify the setting/environment requirements that should be followed.

Shrinkage

Heidelberg Materials EasyFlow screed's very low shrinkage values mean less construction joints are required compared to traditional sand and cement based screeds.

Further information

Contact enquiries@uk.heidelbergmaterials.com

Further copies of this technical data sheet may be obtained from Heidelberg Materials UK

Key considerations

Installation:

- Heidelberg Materials EasyFlow screed is for use in internal environments only and installed in accordance with BS 8204 Code of Practice.
- It is not intended as a wearing surface and therefore must be installed under a floorcovering.
- Screeding should only commence once the building is weather-tight (i.e. structure built and all windows and doors fitted or covered) and with an ambient temperature of above 5°C. Should windows and doors not be fitted, all apertures must be covered with opaque polythene to mimic weather tightness.
- Heidelberg Materials EasyFlow screed must not be laid when the temperature is below 5°C or above 30°C. This must be maintained for at least 48 hours after the screed has been laid.
- Where installation is at ground-floor level, a suitable damp-proof membrane must be placed under the screed.
- Underfloor heating pipes should be pressurised in accordance with BS EN 1264-4:2021 and must be fixed securely to prevent floatation and lifting during installation of Heidelberg Materials EasyFlow screed.
- Columns, service ducts and manhole covers that lie within the installation area, as well as the building's perimeter, should be covered with 10mm miothene or a suitable alternative.
- Failure to follow these installation guidelines may result in aesthetic issues with the screed.

¹ Minimum thickness of 40mm

² based on a 50mm depth in (seasonal) environment

³ Based on laboratory tests of 20°C and 60% R/H, Heidelberg Materials EasyFlow screed will achieve 75% R/H at 21-28 days