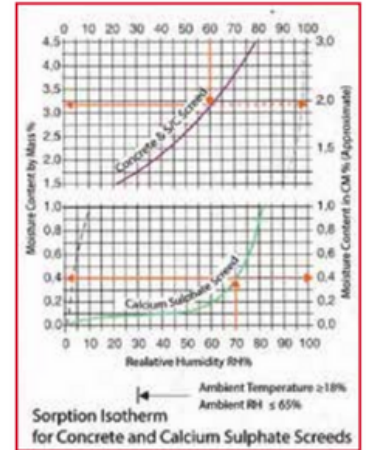


Longfloor IntegraCure Rap7D Data Sheet

Longfloor IntegraCure Rap7D offers industry changing drying time performance from a liquid screed system.

- Rapid drying cement-based liquid screed system
- Screed is fully dry seven days after installation (based on 50mm thickness)
- Able to receive all types of floor coverings at seven days
- Non-moisture sensitive floor covering can be installed in as little as five days
- Reaches 75% R/H (2.5% Concrete Moisture) at seven days
- Reaches 85% R/H (3.5% Concrete Moisture) at five days
- Enhanced strength performance – sold as CT30/F7
- UFH systems can be commissioned earlier than with any other liquid screed system
- Enhanced pumpability and mix rheology
- No impact upon other Longfloor IntegraCure product characteristics
- Liquid additive is added during the normal batching process



Moisture Content

By using the illustrated Sorption Isotherm graph which has been calibrated to show how moisture content within the screed is equivalent to relative humidity (RH) as a percentage. As a general rule, non-moisture sensitive floor coverings such as tiling can be laid when the screed has a relative humidity of between 80-85%. Moisture sensitive floor coverings such as vinyl require the relative humidity to be at 75% before installation.

It can be seen from the graph that for a cement based screed the moisture content (CM) needs to be at 3% to achieved a relative humidity of 80%. Longfloor IntegraCure Rap7D achieves this value in as little as five days after installation.

To achieve a relative humidity of 75% and the floor to be dry enough to receive all types of floor finish the CM reading needs to be at 2.5%. Longfloor IntegraCure rap7D achieves this in as little as seven days after installation.

There is no other flowing product available in the market with this drying time performance. Equivalent cementitious systems take 21 days to dry and the fast drying anhydrite screeds quote a minimum of 14 days. Anhydrite screeds need to be at 75% RH for any floor finish to be applied.

Longfloor IntegraCure Rap7D is a limestone based binder system containing specially selected additives. When mixed with cement, sand and water it produces a free-flowing cementitious screed. It is suitable for all types of flooring applications. IntegraCure has been formulated to negate the need for a spray applied curing agent to be used. Rap7D is an additional liquid additive that is added to this system at the batching stage.

Longfloor IntegraCure Rap7D Data Sheet

Longfloor IntegraCure Rap7D Technical Data

- Longfloor IntegraCure Rap7D CT-30/F7
- Compressive Strength @ 28 Days – $\geq 30\text{N/mm}^2$ (Certain raw material packages may achieve a higher compressive strength value)
- Fresh Wet Density – 2,100-2,200kgs/m³
- Dry Density – 1,950-2,050kgs/m³
- Flexural Strength – $\geq 7\text{N/mm}^2$
- Appearance / Colour – Grey fluid screed mix subject to local sands and cement sources

Specification (To BS EN 13813:2002)

- Flow Range – 270-290mm – Target 280mm
- Maintenance of Flow – > 3 Hours
- Fire Rating (B.S. 476 Part 4) – Non-combustible / A1 rating
- Drying Shrinkage – $\leq 500\mu\text{m/m}$
- pH – ≥ 10
- Thermal conductivity range 1.9W/m.K to 2.6W/m.K (dependant on raw material package)

Minimum Thickness

- Cover to underfloor heating pipes – 25mm
- Unbonded – 30mm
- Floating – 40mm
- Bonded – 25mm (Note, these are minimum thicknesses, not nominal)

Maximum Thickness

- 100mm

Drying Times

- Reaches 75% R/H (2.5% Concrete Moisture) at seven days
- Reaches 85% R/H (3.5% Concrete Moisture) at five days
- Drying time performance is significantly impacted upon site conditions and allowing the floor to dry in the correct way. Please consult with our Rap7D aftercare document for drying time advice and guidance.