

Gypsol HTC

Gypsol HTC is specifically formulated for use with underfloor heating and cooling systems. It is suitable for both warm water and electric underfloor heating.

About Gypsol HTC

Gypsol Binder is an integral component of Gypsol HTC, a screed specially formulated to allow thinner depths than other Gypsol screeds, allowing just 20mm cover to heating conduits. Gypsol HTC is designed to offer high thermal performance in conjunction with underfloor heating and cooling systems. Gypsol HTC is suitable for all types of floor covering including traditional tiles, carpets, vinyl and wood floors.

Physical data

| | |
|------------------------------|---|
| Appearance | Off white fluid mortar |
| Density (kg/m ³) | Wet - 2200 Dry - 2000 |
| Required strength | C25 - F4 Minimum binder content 800kg/m ³ |
| Required flow (EN 13454-2) | 230 - 270mm |
| Reaction to fire | Class A1 _n Non-Combustible |

Performance data

| | |
|------------------------------------|---|
| Working time | Place and finish within 3 hours of batching |
| Foot traffic | 24-48 hours |
| Loading | 7 days |
| Drying (50mm depth) ^[1] | At 20°C and 60% RH - 28 days Active force drying - 13 days |
| Force drying | Can be force dried after 7 days |

^[1] Independently tested and verified. Drying times vary depending on screed depth, ambient conditions and suitability of the building envelope.

Minimum depth requirements

| | |
|-------------------|----------------------------------|
| Bonded | 25mm ^[2] |
| Unbonded | 30mm |
| Floating | 35mm domestic 40mm commercial |
| Acoustic | 80kg/m ² @ 40mm |
| Cover to conduits | 20mm |

^[2] Prepare the substrate in accordance with BS8204:7:2003 using a gritted two coat epoxy resin DPM or similar.

Bay sizes and joint requirements

Heated

| | |
|----------------------|-------------------|
| Maximum length | 20m |
| Maximum aspect ratio | 6:1 |
| Maximum bay size | 300m ² |

Movement joints should be placed at door thresholds, between independently controlled heating zones and where heated and unheated screeds meet.

Environmental data

| | |
|----------------------------------|--------------------------|
| Typical embodied CO ₂ | 6.0-7.5kg/m ² |
| Thermal conductivity | Up to 2.5w/mK |

LKAB Minerals Ltd are not screed manufacturers. The chemical and physical data are expected average figures and are given in good faith but without guarantee. The only warranty LKAB Minerals makes is the express written warranty extended on the sale of its products. For manufacturer specific data please contact your Gypsol screed supplier. Gypsol screeds should be installed in accordance with BS 8204-7:2003 by suitably trained and experienced installers. Gypsol HTC Data Sheet, 08-01 EN, 22-08