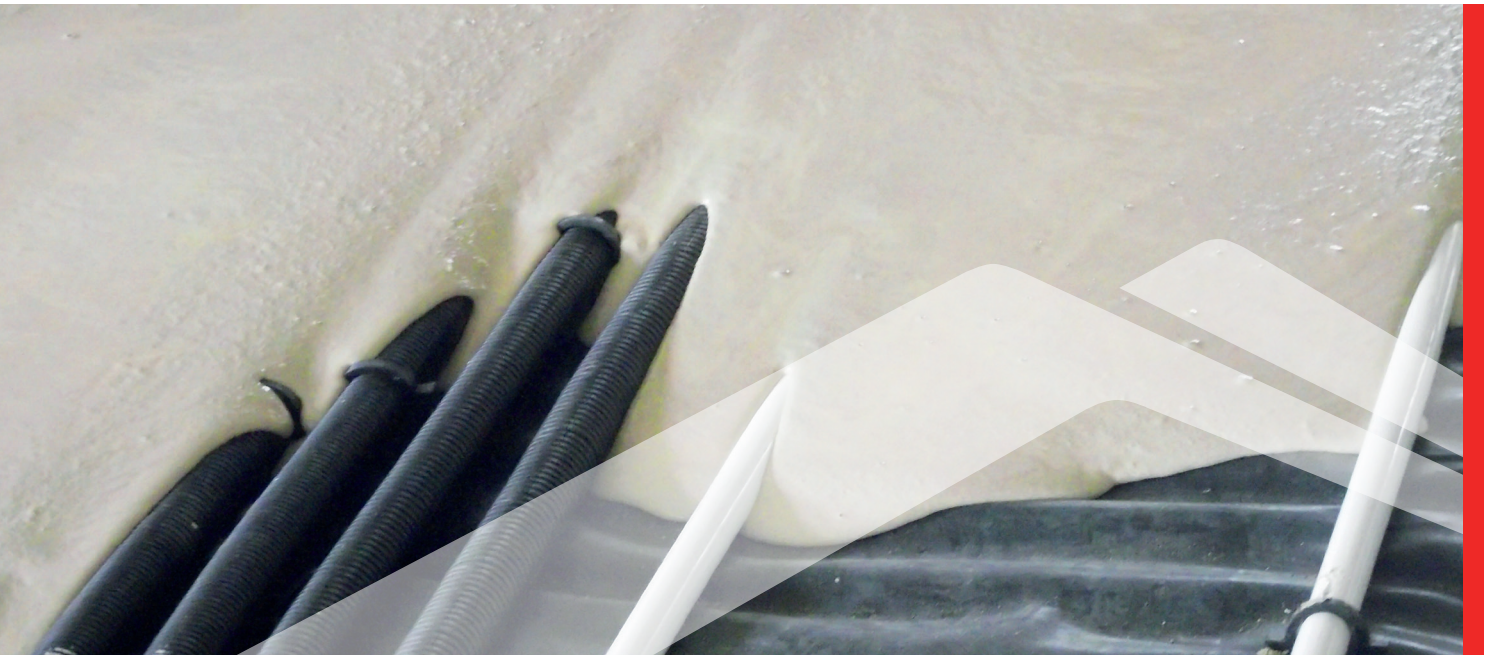
# Gypsol Rapide

*A self-compacting, self-smoothing, fast-drying floor screed*



Gypsol Rapide is a unique and highly innovative faster drying screed which uses high quality Gypsol anhydrite, specially graded sands and selected additives to create a free flowing self-compacting and self-smoothing floor screed which dries in a fraction of the time taken for more traditional anhydrite or cementitious screeds. This allows the user to install floor coverings in significantly less time than for competing screed systems.

Gypsol Rapide is self-curing and requires no artificial curing membrane after installation. The dimensional stability of Gypsol Rapide, whether heated or unheated, significantly reduces the risk of cracking without the need for reinforcement and with much larger bay sizes when compared to cement based materials. Gypsol Rapide can be used in all construction types including traditional masonry, lightweight steel frame, timber frame and in high strength applications. Gypsol Rapide can be used with or without underfloor heating to create a highly energy efficient heating system.

Gypsol Rapide offers many major advantages over other screeds including:

**RAPID** installation – up to 2000m² per day. Allows reduced programme time

**RAPID** finishing – NO spray on curing membranes reducing airborne contamination and eliminating associated safety issues

**RAPID** strength gain – No reinforcement or fibres required and fewer joints with much larger bay sizes

**RAPID** setting – allows early foot traffic

**RAPID** return to full service – can be loaded after just 7 days

**RAPID** thermal response – greater efficiency of underfloor heating

**RAPID** completion – allows early floor covering application, e.g. as little as half the time when compared to other standard anhydrite screeds

*HEALTH AND SAFETY DATA:*

- Gypsol Rapide screed is delivered to site ready to use via offsite mixing plants eliminating the need for labour intensive site mixing and sociated mixing equipment.
- Gypsol Rapide screed is pumped directly to where it is needed, eliminating much of the manual handling operations required to install other screeds.
- Gypsol Rapide screed is generally pumped using equipment with closed or grilled dispensing hoppers, removing risk of contact with moving machinery.
- Gypsol Rapide screed is finished using a lightweight dappling bar requiring no secondary compaction, removing most of the physical work needed to lay other screeds. This significantly reduces the negative impact on the musculoskeletal system of installing contractors. For material safety information please see the relevant safety data sheets.

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## Physical data

| | |
|---|---|
| Appearance | Off white fluid mortar |
| Density | Wet 2200kg/m³ |
| | Dry 2000kg/m³ |
| Minimum Strength (28 days) | C25-F5 [1] |
| Required Flow (EN13454-2) | 230mm to 250mm |
| Reaction to Fire | Class $A1_{fl}$ Non Combustible |

[1] Stronger mix designs may be available on request to allow for alternative applications

## Performance data

| | |
|---|---|
| Working Time | Place and finish within 2.5 hours of batching [2] |
| Foot Traffic | 24 to 48 hours |
| Loading | 7 days |
| Drying Time (@ 20°C/60% RH) | Anticipate 14 days (in ideal condition) [3] |
| Minimum Depth | 40mm floating commercial; 35mm floating domestic; 25mm bonded [4] 30mm un-bonded; 20mm cover to heating conduits |

[2] Ensure account is taken of travel time from plant to site

[3] Tests are based on 50mm depth of screed and indicate that it can take as little as 14 days to achieve 75% surface RH measured using calibrated hygrometer to BS8204:7:2003. A Carbide Bomb test may be used and must measure below 0.5% b/w. Moisture tests should always be carried out prior to application of finished floor covering. Note that drying rates are affected by site conditions, screed depth and added water whether pre or post installation.

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

## Environmental data

| | |
|---|---|
| Recycled Content | Binder 98% |
| | Mortar up to 40% |
| Carbon Emissions | Binder 20 to 40kg per tonne |
| | Mortar 30 to 50kg/m³ |
| VOC | Virtually zero |
| Recyclability | 100% |

## Application of coverings

Underfloor Heating must be commissioned and run prior to laying bonded coverings. Once moisture testing is complete in line with BS8204:7:2003 and the screed is confirmed dry, the surface should be treated in line with the Contract Flooring Association requirements, the relevant British Standards and the advice of the adhesive manufacturers. Preparations remain the responsibility of the floor covering contractor and include lightly abrading the surface. This helps promote primer penetration, provides a key for adhesives and removes extraneous debris e.g. mortar, plaster and mud, and removes loose friable laitance. It is generally unnecessary to remove the top surface of the screed to expose an aggregated finish.