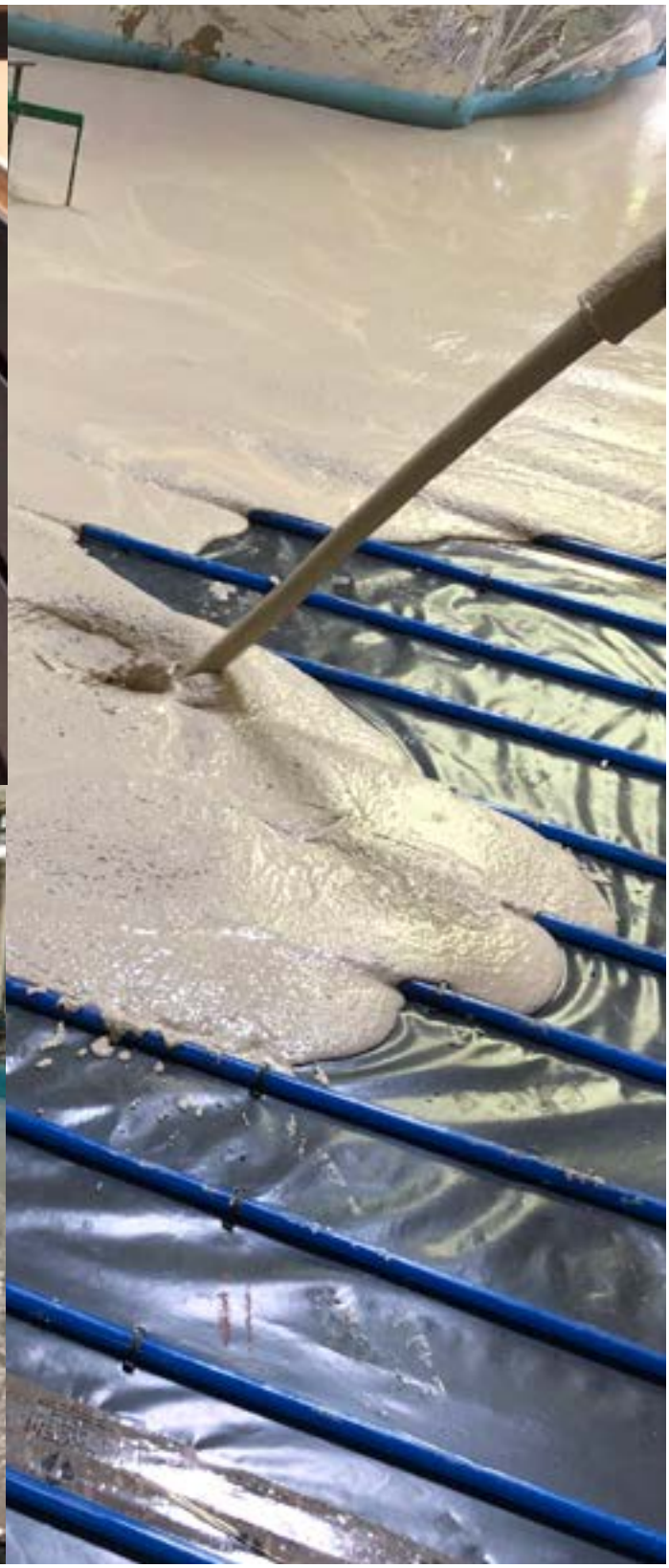
LKAB Minerals

Environmentally friendly
flowing floor screeds

Gypsol Screeds



Gypsol; environmentally friendly flowing screeds

LKAB Minerals Ltd manufactures, in its own UK based facility, a range of BBA approved, low carbon, highly environmentally friendly Gypsol flowing floor screed binders. Gypsol binders area all manufactured using recycled bi-prodct materials from the acid production industry. These binders are, in turn, used to manufacture a range of 11 highly sustainable, low carbon, free flowing Gypsol screeds for use in a wide variety of projects, of all sizes from very small to extraordinarily large. Gypsol Screeds can be used in all types of construction whether timber framed, light weight steel or traditional masonry. There is a highly sustainable Gypsol screed available for every conceivable application.

About LKAB Minerals

LKAB Minerals is an international industrial minerals group with a leading position in a number of product applications. LKAB Minerals was founded in 1989 and is part of the Swedish state owned mining company LKAB, a leading producer of upgraded iron ore. LKAB Minerals are fully committed to a sustainability in mineral processing and materials.In 2018, LKAB Minerals acquired the Gypsol brand, forming part of their civil engineering and construction portfolio.

*LKAB Minerals Ltd are able to offer generic advice on Gypsol Screeds. We work closely with screed manufacturers but we do not manufacture or supply screeds directly. We always recommend that you confirm your specific requirements with the screed manufacturer themselves

Gypsol Product Range

There are 11 high quality highly durable Gypsol screed mixes available.

- Gypsol Classic
- Gypsol HTC
- Gypsol Rapide
- Gypsol Rustique
- Gypsol TS-15
- Gypsol TS-20
- Gypsol XS
- Gypsol Modular
- Gypsol Summit
- Gypsol TimBRE
- Bagged Gypsol Floor Screed

About this brochure

This brochure is interactive. Where you see this symbol, click it to return to the contents page (above).

About Gypsol binder

The range of BBA approved Gypsol anhydrite screed binders are produced from a bi product of the acid production industry. These binders are used to produce a range of Gypsol screeds with a wide variety of applications.

Gypsol screeds are available in eleven formats, ensuring that the right product is available for every application. Gypsol screeds are available nationally from over 90 locations through a comprehensive network of distributors and trained installers.

Gypsol screeds are self-compacting, pumpable and require no artificial curing membrane after installation. The dimensional stability of Gypsol, whether heated or unheated, significantly reduces the risk of cracking without the need for reinforcement. Additionally, Gypsol screeds can be placed in much larger bay sizes when compared to cement based materials.

Environmental data

Not only is Gypsol Binder made from the bi-product of another industry the manufacturing process is very low energy compared to Portland Cement. this means the embodied Carbon footprint is ultra low at just 120kg of CO_2 per tonne of material produced. This in turn leads to reductions in the embodied CO_2 of the screed, up to 85% lower than that of a screed made using Portland Cement. Becase of its performance and versatility of design further significant CO_2 savings are easily achievable through the construction and operation stages of a project.

Recycled Content	Binder 98%
	screed up to 40%
Carbon Emissions	Binder 120kg/tonne
	Mortar 30 to 50 kg/tonne
VOC	Virtually Zero
Recyclability	100%

Key Benefits of Gypsol screeds

Environmentally Freindly

Gypsol screeds offer some of the lowest embodied CO_2 for all screeds in the market. Their versatility means further reductions through design and operation are easily achiev-able making BBA approved Gypsol the most environmentally friendly screed type available anywhere.

Health and Safety

Amongst other benefits, the materials used in Gypsol Screeds and the nature of the installation when compared to other screeding systems, mean that installers benefit from reduced wear and tear on joints and muscles, no issues with cement based skin conditions and much reduced manual handling.

Technical Support

Unrivalled in-house technical expertise and dedicated laboratory ensures that LKAB Minerals can provide ongoing assistance and on-site practical support at all stages. At LKAB Minerals, we encourage discussion between designers, engineers, ready-mix suppliers and ourselves.

Gypsol Classic

Gypsol Classic is a general purpose, multi functional screed providing a solution for almost any application.

About Gypsol Classic

Gypsol Classic is a general purpose screed designed to offer a smooth flat and level surface in any interior non wearing application where a subsequent floor covering is to be used. Gypsol Classic screed is perfectly suited to use in floating, bonded or unbonded construction and can easily incorporate electric or warm water underfloor heating systems.

	Gypsol Classic
Physical Data	
Appearance	Off white fluid mortar
Density	Wet 2200kg/m³ Dry 2000kg/m³
Required Strength	C25 - F4
Required Flow (EN 13454-2)	230 - 270mm
Reaction to Fire	Class A1fl Non Combustible
Performance Data	
Working Time	Place and finish within 3 hours of batching
Foot Traffic	24 to 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
Drying times vary dependent on screed depth, ambient conditions and suitability of the building envelope.	
[1] Independently tested and verified by Action Dry Ltd. Full report available upon request.	
Minimum Depth requirements	
Bonded	25mm [2]
Unbonded	30mm
Floating	35mm Domestic 40mm Commercial
Acoustic	80kg/m² @ 40mm
Cover to conduits	25mm
[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	300m²
Movement joints should be placed at Door Thresholds, between independently controlled heating zones and where heated and unheated screeds meet.	
Unheated	
Maximum Bay Length	40m
Maximum Aspect Ratio	8:1
Maximum Bay Size	1000m²
Environmental Data	
Typical Embodied CO2	80 to 95kg/m3
Recyclability	100%
VOC	Virtually Zero

Gypsol HTC

Gypsol HTC is a screed specifically designed for use with underfloor heating and cooling systems, making it suitable for both warm water and electric underfloor heating.

About Gypsol HTC

Gypsol HTC is designed for use with both conventional heat sources and renewable technologies. It is not pipe specific and is suitable for use with any underfloor heating system and in any type of construction, subject to suitable engineering. It is suitable for use over timber floors, Lewis decking, and more traditional concrete and masonry systems.

Gypsol HTC is specially formulated to allow thinner depths than our conventional Gypsol screeds allowing just 20mm cover to heating conduits. Gypsol HTC is suitable for all types of floor covering including not only traditional tiles, carpets, vinyl and wood floors but also with suitably formulated floor sealers such as clear epoxy coatings. Coupled with Gypsol HTC's unrivalled and independently tested thermal conducitivity, this offers the ultimate in underfloor heating efficiency and comfort.

	Gypsol HTC
Physical Data	
Appearance	Off white fluid mortar
Density	Wet 2200kg/m³ Dry 2000kg/m³
Required Strength	C25 - F4 Minimum binder content 800kg/m³
Required Flow (EN 13454-2)	230 - 270mm
Reaction to Fire	Class A1fl Non Combustible
Performance Data	
Working Time	Place and finish within 3 hours of batching
Foot Traffic	24 to 48 hours
Loading	5-7 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
Drying times vary dependent on screed depth, ambient conditions and suitability of the building envelope.	
[1] Independently tested and verified by Action Dry Ltd. Full report available upon request.	
Minimum Depth requirements	
Bonded	25mm [2]
Unbonded	30mm
Floating	35mm Domestic 40mm Commercial
Acoustic	80kg/m² @ 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	300m²
Movement joints should be placed at Door Thresholds, between independently controlled heating zones and where heated and unheated screeds meet.	
Environmental Data	
Typical Embodied CO2	35kg/m3
Recyclability	100%
VOC	Virtually Zero

Gypsol Rapide

Gypsol Rapide is a unique, faster drying screed, providing a drying time of just 14 days.

About Gypsol Rapide

Gypsol Rapide offers all of the benefits of an Anhydrite floor screed, plus the added advantage of an unrivalled and independently varified drying time of just 14 days. This allows the user to install floor coverings in significantly less time than for competing screed systems.

Gypsol Rapide also benefits from no requirement to remove laitance to help promote drying. As with ALL screeds some light mechanical abrasion may be necessary in order to properly prepare the surface to receive primers and adhesives in order to meet the requirements of the standards governing floor coverings.

Gypsol Rapide can be used with or without underfloor heating. When used in conjunction with any type of underfloor heating it creates a high performance, highly efficient and environmentally-friendly heating system. Gypsol Rapide is a suitable fast drying alternative to all other Gypsol Screed formats.

	Gypsol Rapide
Physical Data	
Appearance	Off white fluid mortar
Density	Wet 2200kg/m³ Dry 2000kg/m³
Minimum Strength	C25 - F5 [1]
Required Flow (EN 13454-2)	230mm - 250mm
Reaction to fire	Class A1fl 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 (@20°C / 60% RH)[1]	14 days (in ideal conditions) [3]
Force Drying	Can be force dried in 7 days

[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.

Minimum Depth requirements	
Bonded	15mm [4]
Unbonded	15mm
Floating	35 mm Domestic 40mm Commercial
Cover to conduits	20mm

[4] 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	300m²

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

Unheated	
Maximum Bay Length	40m
Maximum Aspect Ratio	8:1
Maximum Bay Size	1000m²

Environmental Data	
Typical Embodied CO2	35kg/m3
Recyclability	100%
VOC	Virtually Zero
Thermal Conductivity	up to 2.5w/mK

Gypsol Rustique

Gypsol Rustique offers a fast track flooring solution with no requirement for subsequent floor coverings.

About Gypsol Rustique

Gypsol Rustique screed has been developed to offer the unique benefits of a durable, stain resistant wearing surface when combined with easy to apply, colourless sealers from a range of manufacturers. Once the screed is installed by a trained screed installer the selected sealer is simply applied to the screed surface by a suitably qualified applicator. Gypsol Rustique screed offers a bespoke and variable surface finish expected from a rustic or industrial look floor.

Time from initial installation of the Gypsol Rustique screed to completion of the finished floor can be less than one month. It is perfect for use with or without underfloor heating and can be used for all domestic and commercial interior applications where light commercial and heavy foot traffic is likely.

Gypsol Rustique is formulated to be suitable for use with a range of sealers. LKAB do not supply these sealers but can suggest manufacturers and suppliers where the end user can source them.

Aesthetic floor finish

Gypsol Rustique provides a Aesthetically rustic floor finish once sealed and polished.

	Gypsol Rustique
Physical Data	
Appearance	Off white fluid mortar
Density	Wet 2200 kg/m³ Dry 2000 kg/m³
Minimum Strength	C30 - F5 [1] Minimum binder content 800kg/m³
Required Flow (EN 13454-2)	230mm - 270mm
Reaction to fire	Class A1fl 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 hours of batching
Foot Traffic	24 to 48 hours
Loading	7 days
Drying (@20°C / 60% RH)[1]	In excess of 1mm per day
Force Drying	Can be force dried after 7 days

Minimum Depth requirements	
Bonded	25mm [2]
Unbonded	30mm
Floating	35 mm Domestic 40mm Commercial
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	300m²

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

Unheated	
Maximum Bay Length	40m
Maximum Aspect Ratio	8:1
Maximum Bay Size	1000m²

Environmental Data	
Typical Embodied CO2	35kg/m3
Recyclability	100%
VOC	Virtually Zero

Gypsol TS-15

Gypsol TS-15 is a unique screed, designed to be placed at a depth of just 15mm in either bonded or unbonded constructions.

About Gypsol TS-15

Gypsol TS-15 is a specially formulated screed, designed to offer a strong and durable ultra-thin topping to a solid interior substrate; for example, in situ concrete or beam and block or precast concrete planks.

Due to its ultra-thin depth, just 15mm minimum, TS-15 can be dried quickly allowing rapid return to service and application of finished floor coverings.

Gypsol TS-15 is perfectly suited to flooring applications where height is extremely restricted and offers a lightweight cost effective alternative to smoothing compounds. It can be installed extremely quickly to at least 2000m² per day. This represents a significant saving in time when compared to bagged, site mixed smoothing compounds and levelling screeds.

Gypsol TS-15 screed is designed to be laid to a minimum of 15mm depth and can be used either bonded directly to a solid substrate prepared in accordance with BS 8204:7:2003 or un-bonded on a polythene membrane. Gypsol TS-15 screed can also be used over low profile underfloor heating systems.

Typical Application Schematic

Gypsol TS-15 Screed laid un-bonded

	Gypsol TS-15
Physical Data	
Appearance	Off white fluid mortar
Density	Wet 2200 kg/m³ Dry 2000 kg/m³
Minimum Strength	C35 - F6
Required Flow (EN 13454-2)	230mm - 250mm
Reaction to fire	Class A1fl Non Combustible
Performance Data	
Working Time	Place and finish within 2 hours of batching Finish within 1 hour of placing
Foot Traffic	24 to 48 hours
Loading	5 to 7 days
Drying (@20°C / 60% RH)	In excess of 1mm/day
Force Drying	Can be force dried after 7 days
Minimum depth (bonded or unbonded)	15mm

Gypsol TS15 may be laid un-bonded over a suitable minimum 500 gauge polythene membrane.
Gypsol TS15 has been independently tested for its suitability to be laid un-bonded at 15mm by Aston Services Ltd.
For Bonded screed, prepare the substrate in accordance with BS8204:7:2003 using a gritted two coat epoxy resin DPM or similar.

Bay sizes and joint requirements	
Maximum Length	20m
Maximum Aspect Ratio	8:1
Maximum Bay Size	500m²

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

Environmental Data	
Typical Embodied CO2	35kg/m3
Recyclability	100%
VOC	Virtually Zero

Gypsol TS-20

Gypsol TS-20 is a unique screed, designed to be placed at a depth of just 20mm in either bonded or unbonded applications.

About Gypsol TS-20

Gypsol TS-20 is a specially formulated screed, designed to offer a strong and durable thin topping to a solid interior substrate; for example, in situ concrete or beam and block or precast concrete planks.

Due to its thin depth, just 20mm minimum, TS-20 can be dried quickly allowing rapid return to service and application of finished floor coverings.

Gypsol TS-20 is perfectly suited to flooring applications where height is extremely restricted and offers a lightweight cost effective alternative to smoothing compounds. It can be installed extremely quickly to at least 2000m² per day. This represents a significant saving in time when compared to bagged, site mixed smoothing compounds and levelling screeds.

Gypsol TS-20 screed is designed to be laid to a minimum of 20mm depth and can be used either bonded directly to a solid substrate prepared in accordance with BS 8204:7:2003 or un-bonded on a polythene membrane.

Typical Application Schematic

Gypsol TS-15 Screed laid un-bonded

	Gypsol TS-20
Physical Data	
Appearance	Off white fluid mortar
Density	Wet 2200kg/m³ Dry 2000kg/m³
Minimum Strength	C30 - F5
Required Flow (EN 13454-2)	230mm - 270mm
Reaction to fire	Class A1fl Non Combustible
Performance Data	
Working Time	Place and finish within 2 hours of batching Finish within 1 hour of placing
Foot Traffic	24 to 48 hours
Loading	5 to 7 days
Drying (@20°C / 60% RH)	In excess of 1mm/day
Force Drying	Can be force dried after 7 days
Minimum depth	20mm

Gypsol TS 20 has been independently tested for suitability to be laid un-bonded at 20mm depth by Aston Services Ltd.
For Bonded screed, prepare the substrate in accordance with BS8204:7:2003 using a gritted two coat epoxy resin DPM or similar.

Bay sizes and joint requirements	
Maximum Length	20m
Maximum Aspect Ratio	8:1
Maximum Bay Size	500m²

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

Environmental Data	
Typical Embodied CO2	35kg/m3
Recyclability	100%
VOC	Virtually Zero

Gypsol XS

Gypsol XS is an enhanced strength screed suitable for areas where higher than usual loadings are experienced.

About Gypsol XS

Gypsol XS is an enhanced strength flowing screed, produced using special additives to ensure a minimum strength of C30 F6. It is suitable for use in both residential and commercial properties, including apartments, schools, prisons, hospitals and single dwellings where higher loadings and more durable screeded floors are required. In common with all Gypsol screeds, Gypsol XS screed also improves the environmental characteristics of the floor.

Gypsol XS is suitable for the encapsulation of underfloor heating systems, either electric or warm water.

	Gypsol XS
Physical Data	
Appearance	Off white fluid mortar
Density	Wet 2200kg/m³ Dry 2000kg/m³
Minimum Strength	C30 - F6
Required Flow (EN 13454-2)	230mm - 270mm
Reaction to fire	Class A1fl Non Combustible
Performance Data	
Working Time	Place and finish within 3 hours of batching
Foot Traffic	24 to 48 hours
Loading	5 - 7 days
Drying (50mm depth)[1]	At 20°C and 60% RH - 28 days [1] Active force drying - 13 days [1]
Force Drying	Can be force dried after 7 days

Drying times vary dependent on screed depth, ambient conditions and suitability of the building envelope.

[1] Independently tested and verified by Action Dry Ltd. Full report available upon request.

Bay sizes and joint requirements	
Heated	
Maximum Length	20m
Maximum Aspect Ratio	6:1
Maximum Bay Size	300m²

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

Unheated	
Maximum Bay Length	40m
Maximum Aspect Ratio	8:1
Maximum Bay Size	1000m²

Minimum Depth requirements	
Bonded	25mm [2]
Unbonded	30mm
Floating	35 mm Domestic 40mm Commercial
Cover to conduits	20mm

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

Environmental Data	
Typical Embodied CO2	35kg/m3
Recyclability	100%
VOC	Virtually Zero

Gypsol Modular

Gypsol Modular is suitable for use in both residential and commercial properties, including apartments, schools, prison units, hospitals and single dwellings where light weight and durable modular floors are required.

About Gypsol Modular

Gypsol Modular is designed specifically for use in Modular construction systems and screed is suitable for the encapsulation of an underfloor heating system, either electric or warm water. Gypsol Modular screed provides a concrete feel to a timber or light weight steel floor.

Gypsol Modular can be used for both on and offsite construction processes and can be placed over light weight steel decking or on to timber. Off site screeded modular units may be lifted using suitable lifting equipment after just 72 hours.

	Gypsol Modular
Physical Data	
Appearance	Off white fluid mortar
Density	Wet 2200 kg/m³ Dry 2000 kg/m³
Minimum Strength	C30 - F6
Required Flow (EN 13454-2)	230mm - 270mm
Reaction to fire	Class A1fl Non Combustible
Performance Data	
Working Time	Place and finish within 3 hours of batching
Foot Traffic	24 to 48 hours
Loading	5 - 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

Drying times vary dependent on screed depth, ambient conditions and suitability of the building envelope.

[1] Independently tested and verified by Action Dry Ltd. Full report available upon request.

Minimum Depth requirements	
Bonded	25mm [2]
Unbonded	30mm
Floating	35mm Domestic 40mm Commercial
Acoustic	80kg/m² @ 40mm
Cover to conduits	25mm

[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	300m²

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

Unheated	
Maximum Bay Length	40m
Maximum Aspect Ratio	8:1
Maximum Bay Size	1000m²

Environmental Data	
Typical Embodied CO2	35kg/m3
Recyclability	100%
VOC	Virtually Zero

Gypsol Summit

Gypsol Summit is designed specifically for use in high rise applications where the screed needs to be pumped to ten stories and above without the danger of segregation.

About Gypsol Summit

Gypsol Summit is suitable for most construction types including steel frame, concrete frame, lightweight steel and traditional masonry construction. It is suitable for residential and commercial properties, and where required can be used to improve the acoustic performance of the floor to meet or exceed Part E of building regulations.

Gypsol Summit can be pumped above 10 stories with ease using a suitable pumping system. A standard screed pump is unlikely to be suitable for very high levels and account should be taken of the hydrostatic head pressures when selecting suitable pipe work.

Gypsol Summit can be used with or without underfloor heating and offers exceptional environmental credentials.

	Gypsol Summit
Physical Data	
Appearance	Off white fluid mortar
Density	Wet 2200kg/m³ Dry 2000kg/m³
Required Strength	C25 - F4 Minimum binder content 800kg/m³
Minimum Strength (28 days)	C25 - F4
Required Flow (EN 13454-2)	230mm - 270mm
Reaction to fire	Class A1fl Non Combustible
Performance Data	
Working Time	Place and finish within 3 hours of batching
Foot Traffic	24 to 48 hours
Loading	5 - 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
Drying times vary dependent on screed depth, ambient conditions and suitability of the building envelope.	
[1] Independently tested and verified by Action Dry Ltd. Full report available upon request.	
Minimum Depth requirements	
Bonded	25mm [2]
Unbonded	30mm
Floating	35mm Domestic 40mm Commercial
Acoustic	80 kg @ 40mm
Cover to conduits	25mm
[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	300m²
Movement joints should be placed at Door Thresholds, between independently controlled heating zones and where heated and unheated screeds meet.	
Unheated	
Maximum Bay Length	40m
Maximum Aspect Ratio	8:1
Maximum Bay Size	1000m²
Environmental Data	
Typical Embodied CO2	35kg/m3
Recyclability	100%
VOC	Virtually Zero

Gypsol TimBRE

Gypsol TimBRE is designed and independently tested for use in acoustic and non acoustic flooring systems which use timber joists as their primary supporting structure.

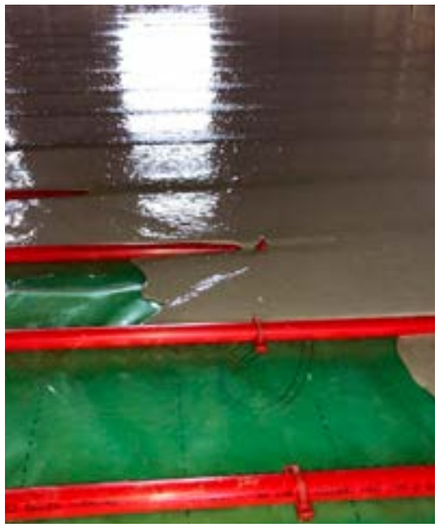
About Gypsol TimBRE

Gypsol TimBRE is suitable for use in bother residential and commercial projects with a timber substructure. It can be used with or without underfloor heating and can be used to enhance the acoustic performance of the floor to meet or exceed Part E of the UK bulding regulations. Gypsol TimBRE screed also improves the environmental, fire resistance and durability characteristics and gives a concrete feel to a timber supported floor.

Where Gypsol TimBRE screed is designed to be used in conjunction with a compressible or an acoustic resilient insulation, an acoustician should be consulted to approve the design prior to installation where acoustic performance is required. Gypsol TimBRE is approved for use in the SoundBar® system by Metsä Wood.

It is essential that the timber supporting structure is suitably engineered to accommodate the increased loading associated with the screed.

Typical Application Schematic



	Gypsol TimBRE
Physical Data	
Appearance	Off white fluid mortar
Density	Wet 2200kg/m³ Dry 2000kg/m³
Minimum Strength (28 days) kN/m²	C35 - F6
Required Flow (EN 13454-2)	230mm - 270mm
Reaction to fire	Class A1fl Non Combustible
Performance Data	
Working Time	Place and finish within 3 hours of batching
Foot Traffic	24 to 48 hours
Loading	5 - 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
Drying times vary dependent on screed depth, ambient conditions and suitability of the building envelope.	
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Bay sizes and joint requirements	
Heated	
Maximum Length	20m
Maximum Aspect Ratio	6:1
Maximum Bay Size	300m²
Movement joints should be placed at Door Thresholds, between independently controlled heating zones and where heated and unheated screeds meet.	
Unheated	
Maximum Bay Length	40m
Maximum Aspect Ratio	8:1
Maximum Bay Size	1000m²
Environmental Data	
Typical Embodied CO2	35kg/m3
Recyclability	100%
VOC	Virtually Zero

Gypsol Product Brochure 11-04 EN, 21-08

www.lkabminerals.com