

Gypsol Flowing Screed

Gypsol from LKAB Minerals is used as a main ingredient in self-compacting, flowing floor screeds. Using a by-product from the acid production industry, our BBA Approved* binders offer a lower carbon option to Portland cement used in cement-based screeds¹.

* For product-specific BBA information, please contact us
1. <https://www.lkabminerals.com/product/gypsol-binder/>

Gypsol flowing screed

Gypsol and Gypsol Complete are manufactured in the UK and come from a by-product of the acid industry. This product is used to make anhydrite flowing screeds.

What is Gypsol flowing screed?

Gypsol flowing screed is made from our high-quality Gypsol anhydrite binder, specially selected sands, and clean water. Therefore, it offers users a simple, effective floor-screeding solution for floating, unbonded, bonded or underfloor heating applications.

Gypsol is a modern, technologically advanced flowing floor screed formulated using unique ingredients to offer significant advantages. Gypsol is used to manufacture a range of different screed formats, each independently designed to provide specific benefits for various applications.



Free-flowing, self-smoothing floor screeds

Our high-performance anhydrite binder is used to produce a range of pumpable, self-smoothing floor screeds. Gypsol is made in our UK facility and is a lower-carbon alternative to Portland cement. Therefore, Gypsol screeds constitute a key component of the flooring industry, offering transparent and measurable carbon credentials.

Gypsol flowing screeds are supplied through a comprehensive network of distributors and specially trained contractors.

Gypsol journey to site

Service, product quality and responsible practices are at the heart of Gypsol. Follow the QR Code below to learn more about our process.



Gypsol is a modern, technologically advanced free-flowing floor screed. It is formulated using unique ingredients to offer significant advantages to our customers. Gypsol is used to manufacture a range of different screed formats, each independently designed to offer specific advantages to the end users for different applications. The formats include:

- Gypsol Classic - a general purpose screed material
- Gypsol Rapide - capable of drying in just 14 days from installation
- Gypsol TS15 - uniquely suited to depths of just 15mm unbonded or bonded
- Gypsol HTC - specifically formulated to provide enhanced efficiency with underfloor heating

...as well as a range of other designs.

Binder to flowing screeds

Product range

Contractors and ready-mix companies use Gypsol to offer different formats. The Gypsol range offers huge design flexibility to accommodate diverse and novel applications within various building types. Gypsol and Gypsol Complete can be used to manufacture all screed formats, with the exception of Rapide, which requires Gypsol Complete.

Gypsol Classic	A general-purpose screeding system. The most commonly used material in our range. Capable of drying within 28 days.
Gypsol Rapide	A self-compacting, self-smoothing, fast-drying floor screed using Gypsol Complete. Capable of drying within 14 days.
Gypsol HTC (High Thermal Conductivity)	A screed made for use with underfloor heating and cooling systems. This can increase the Coefficient of Performance (COP) of your heating system.
Gypsol TS-15	A unique ultra-thin screed for unbonded and bonded applications at a minimum depth of 15mm.
Gypsol TS-20	A unique thin screed suitable for unbonded and bonded applications down to a 20mm minimum depth.
Gypsol TimBRE	Specially formulated and tested for use over timber-supported floors, especially where acoustic performance is required.
Gypsol XS	Extra strength material for use in heavy-duty applications, where loading is likely to be higher than usual. For example, car showrooms or non-industrial warehouses.
Gypsol Summit	Specially formulated screed to be pumped over very long distances or in high buildings of 10 stories and above.
Gypsol Modular	Designed for use in modular construction to allow early movement of units, also for a lightweight steel frame and Lewis Decking.

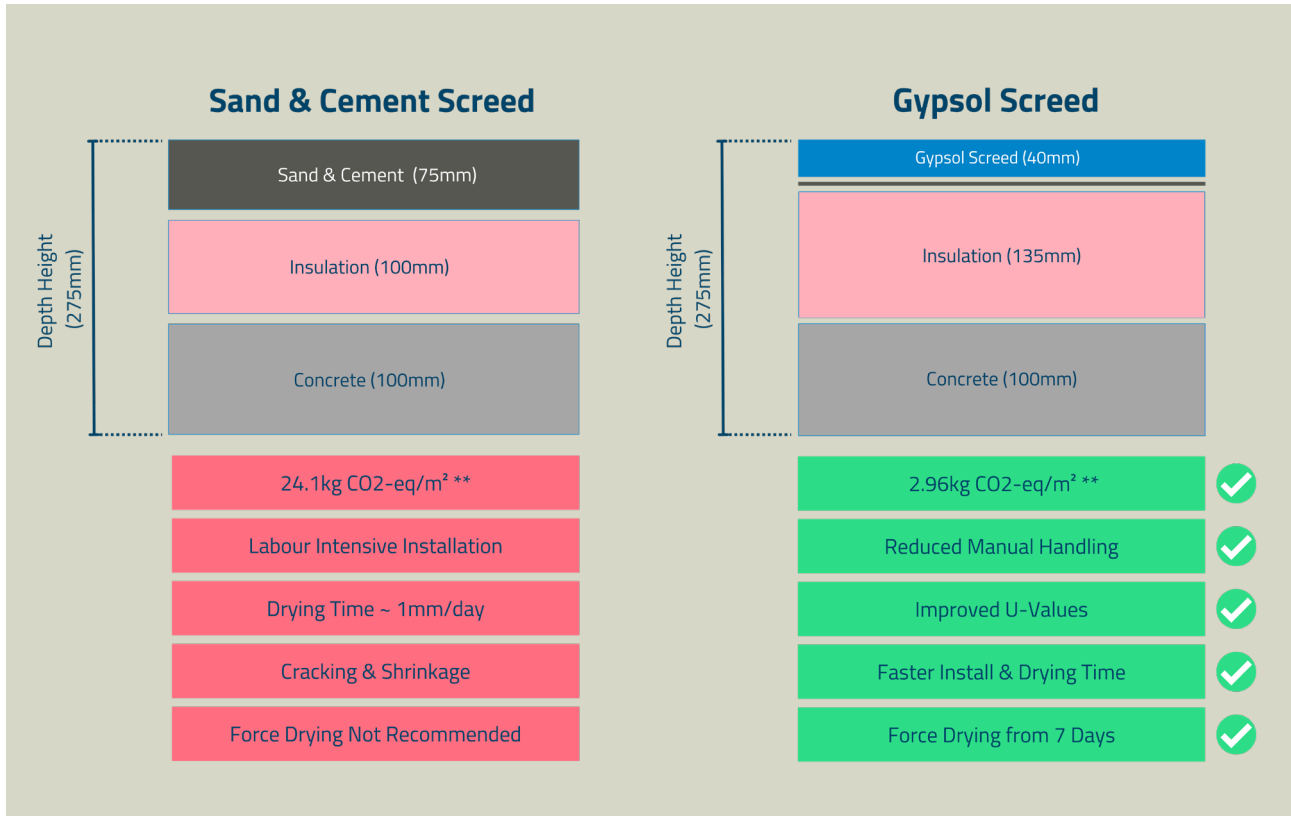
Product range

Type	Gypsol screed	Gypsol Rapide	Traditional sand cement screed
Standard drying time	28 days	14 days	6 weeks
Force drying*	7 days	7 days	For all cement-based screeds, force drying is not recommended
Loading	7 days	7 days	28 days

*Force drying under lab conditions. Force drying can commence with the commissioning of UFH after seven days.

Environmental information

Data from our product Environmental Product Declaration¹, published in December 2022, shows that Gypsol Complete offers 108 kg of CO₂ per tonne measured from the start of manufacturing to leaving our site. Based on the average amount of Gypsol used in screed, this works out at 2.96kg of CO₂ per m².



Changing regulations to newbuilds

The Future Homes Standard 2025 states new builds must reduce carbon emissions by 75%, compared to homes built under current regulations. As a result, new homes will use alternative heating sources instead of gas boilers, and the use of underfloor heating is predicted to soar.

Gypsol's high performance and versatility allows potential savings to be achieved through design and operational efficiency. Our HTC screed is a specially formulated design that is the ideal partner for underfloor heating and cooling systems. Suitable for both warm water and electric underfloor heating, its high thermal conductivity results in great efficiency.

¹ Our Environmental Product Declaration is available online: <https://www.lkabminerals.com/product/gypsol-binder>

² <https://api.environdec.com/api/v1/EPDLibrary/Files/d3b7186b-96ec-4d67-dd14-08da1c754aa8/Data>

³ <https://www.concretecentre.com/Codes/Environmental-Assessment/EPD.aspx>

Why choose Gypsol screeds?

Using Gypsol screeds offers ready-mix and onsite screed manufacturers a number of benefits.

Technical support

Unrivalled in-house technical expertise and a dedicated laboratory ensures that LKAB Minerals can provide ongoing assistance and on-site technical support at all stages of your project. At LKAB Minerals, we encourage discussion between architects, engineers, ready-mix suppliers and the Gypsol team.

Ideal for underfloor heating

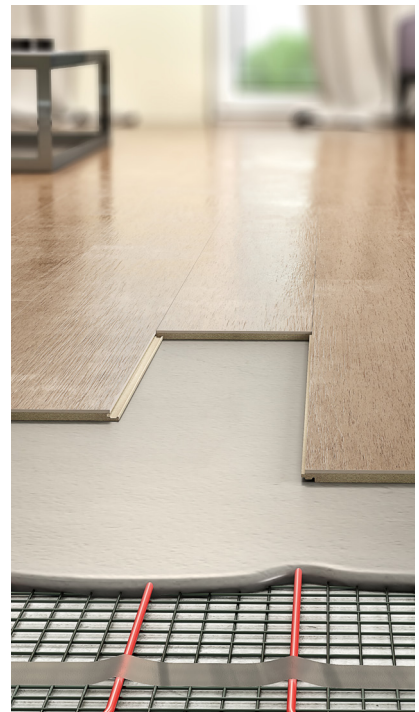
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Ease of installation

Gypsol screeds are self-smoothing, pumpable and require no artificial curing membrane after installation. The dimensional stability of Gypsol screeds, 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. 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 fewer issues with cement-based skin conditions and much reduced manual handling.



Free-flowing, self-smoothing floor screeds

Our high performance Gypsol anhydrite is used to produce a range of pumpable, self-smoothing floor screeds. Made in our UK facility using a by-product from the acid production industry, Gypsol is an alternative to cement and a key ingredient in construction and flooring projects.

Gypsol based screeds are used in a wide variety of building types offering huge design flexibility with different formats, supplied through a comprehensive network of distributors and specially trained contractors.

Case study

London's largest regeneration sites, Brunel Streetworks, selects LKAB's Gypsol

Brunel Street Works is one of the largest regeneration sites in London, Canning Town, E16. This exciting new urban development is helping support and attract new homeowners and revitalise a disused site in Canning Town. The site is close to major rail links and is a short walk to Canary Wharf and London City Airport. In addition to the strong transport links, the apartments offer stunning views of the city landscape, including the O2 Arena. The development project consisted of 996 apartments and a Premier Inn Hotel over 5 Blocks.

The project

The main contractor on this project were Vistry Partnerships, who are one of the leading regeneration specialists with over 100 project sites currently within the UK.

Vistry selected sub-contractor Mec-Serv, who are one of the largest screeders in the UK and use Gypsol on their projects. Mec-Serv worked with Capital Concrete, one of the newest, large-scale producers into the London ready-mix market, for their superior service and quality.

Capitalflow Classic was the product of choice, using standard Gypsol initially, and then, as the project progressed, LKAB released their new complete screed, which has many added benefits.

LKAB's Gypsol was chosen due to having a carbon rating of 108kg per tonne of Gypsol Complete.

Sustainability

In the past few years, UK construction has continued to see an increase in demand for sustainable materials and practices. With a typical annual screed market in the region of 10 million square metres per annum, the demand for sustainable screed solutions will only increase.

Gypsol screeds are produced from an industry by-product and require little energy to process, with no elevated temperatures. Gypsol is made from 98% recycled materials.

LKAB's Ben Bland, Commercial Manager, commented, "Health and safety, quality, and the environment are all important aspects of being a responsible business. By meeting the economic, environmental, and social obligations, Gypsol screeds can offer solutions for many projects."



Project facts	
Location	London
Floor screed chosen	Gypsol Classic
Project type	Apartments
Main contractors	Vistry Partnerships

Case study

Print Press Area, Dublin

Label Craft is a manufacturer of self-adhesive labels in Dublin, Ireland. They proudly boast of being able to supply a complete innovative label solution for any business. Naturally, time is critical in delivering products and services to their clients, so they turned to Gypsol's thin TS-20 self-flowing screed to provide the solution to their print room floor refurbishment.

The project

Due to replacing the steel floor cassettes and restructuring the print press area, the client employed a Dublin-based contractor, Green-House. They provided a solution to the resulting change of floor levels.

Green-House (Vinsok Ltd) is one of Ireland's leading renewable and mechanical installers, specialising in both domestic and commercial projects of any size.

The client's Production Manager, Mr John MacDonald, confirmed the printing machine "has to be level otherwise the machine won't work."

In early September, Gypsol TS-20 screed was poured on a Saturday morning, providing a flat level and very thin layer to the existing uneven surface. Part of the external wall was removed to allow for the safe moving of a Heidelberg printing press weighing 6 tonnes.

The physical strengths and drying rates of Gypsol's TS-20 screed provided a very speedy, unbonded installation. The client was able to minimise production delays and re-mount the press onto the freshly screeded floor after just 14 days. Paul O' Kane from Green-House said the screed was "fantastic and the job worked out extremely well".



Project facts	
Location	Dublin, Ireland
Floor screed	Gypsol TS-20
Project type	Label Craft, Print Press Area
Screed supplier	Roadstone Ltd

Discover more

Get in contact with one of our specialist Technical Sales Managers for more information or visit our website: www.lkabminerals.com.

Phone: : +44 (0) 800 622 6023 - Email: gypsolorders@lkab.com

About LKAB Minerals

LKAB Minerals is an international industrial minerals group with a leading position in a number of product applications. We develop sustainable mineral solutions in partnership with our customers, supplying natural minerals engineered for functionality and usability. LKAB Minerals is part of the Swedish company LKAB, one of the world's leading producers of highly upgraded iron ore products and other related mining services and products.

Value driven

We are proud and passionate about what we do – this is reflected in our values: Committed, Innovative and Responsible.

Find out more

Find out more about the Gypsol product range or speak to one of our technical experts by visiting www.lkabminerals.com