

Gypsol Anhydrite Floor Screed



Company : Francis Flower (Northern) Ltd

Web Address : <https://www.gypsol.co.uk>

What is the problem that this innovation is designed to overcome

Gypsol anhydrite flowing screeds are available in a variety of formats making them ideal for use in all floor designs especially where floor to ceiling heights are and where underfloor heating is required. Gypsol Screeds are exceptionally useful where underfloor heating is to be used as they can increase the efficiency of a given system by providing a rapid response, low mass, low temperature system enabling low running costs and low subsequent carbon emissions. Gypsol screeds also enable users to lay a thin screed over all substrate types including timber floors offering a concrete feel to a timber floor in addition to their use in more traditional applications. Gypsol screeds do not curl, are very resistant to cracking and do not shrink significantly. This high level of dimensional stability eliminates the need for reinforcement.

What is Innovative about it

Gypsol Screeds use waste material harvested from the acid production industry instead of more traditional ordinary Portland cement. This produces a screed material which is free flowing and fully self compacting. The material is mixed off site and delivered to the point of use by pump making placement quick and easy.

What is the business case for its use

Gypsol screeds can be laid much thinner than traditional screeds, typically 30mm unbonded and 35mm floating, which means that either thicker insulation can be used offering a better thermal performance or alternatively thinner floor sections can be achieved which mean greater floor to ceiling heights making it perfect for all applications. Gypsol offers a perfect complement to an underfloor heating system offering low mass and fast response at very low flow temperatures, typically 30°C, which leads to high levels of efficiency and low "delta T" values. This means that the material is extremely cost effective both at installation and design phase and during operation. The use of Gypsol screeds can reduce the Carbon Footprint of the floor screed by some 94% compared to a traditional sand cement screed.

How does Gypsol Screed help bridge the Retrofit Performance Gap

The use of Gypsol screed can improve the coefficient of performance of an underfloor heating system by up to 25%. The use of thinner screeds ensures that floor to ceiling heights not significantly compromised. Gypsol screeds have been tested for use over timber floors meaning that, subject to suitable engineering qualification the screeds can be used in existing structures as well as new build. The addition of mass improves the acoustic performance of the floor. This coupled with its use with efficient radiant heat systems leads to greater comfort levels in the occupied rooms. Gypsol screeds use up to 40% recycled material. Gypsol screeds have a design life to match the life of the building and can be fully recycled at the end of the life cycle of the building.

