



Alpha-Hemi-Hydrate Based Self-Compacting Floor Screed

PRODUCT DESCRIPTION

Alpha-Hemi-Hydrate Screed is a Calcium Sulphate based self-compacting floor screed for all types of internal flooring. It is a ready made product, batched off site under strict quality control procedures and delivered to site in a truck mixer.

USES

Alpha-Hemi-Hydrate Screed is intended for use in all types of construction, including new build, refurbishment and renovation work. It can be used in bonded, unbonded or floating construction and has particular benefits where screed thickness is important.

Alpha-Hemi-Hydrate Screed is well suited for under-floor heating applications as it can be laid much thinner than traditional screeds, allowing the system to release heat much more quickly and react more efficiently to user demands.

SPECIAL PROPERTIES

- Delivered ready for use
- Large area application
- Highly fluid
- Self-smoothing
- Self-compacting
- Rapid cure
- Rapid strength development
- Under-floor heating suitability

METHOD OF USE

PREPARATION:

The sub-floor should be clean and free from oil, grease or other contamination.

For bonded **Alpha-Hemi-Hydrate Screeds**, the sub-floor should be lightly textured, all loosely bonded material and dust removed and the surface lightly sprayed with water. Any pools of water that form must be removed prior to screed application. All movement joints must be located and marked for re-sawing after the application of the screed.

APPLICATION:

Alpha-Hemi-Hydrate Screed may be pumped using a suitable grout pump. As the screed is highly fluid and self-smoothing, only minimal levelling is required.

The minimum application and curing temperature is 5°C. However, best results will be obtained at temperatures between 10°C and 25°C.

APPLYING FINISHES:

Alpha-Hemi-Hydrate Screeds provide a level sub-floor and a smooth, flat surface onto which the subsequent floor finishes will be applied (e.g. tiling, carpets, flexible flooring etc.). Final floor finishes may be applied before the screed has fully dried out. (See Technical Data for typical drying times.)

TECHNICAL DATA

- Appearance : Grey-white with uniform dense surface
- Fluidity at Pouring : Self-Smoothing
- Flow Range : 230 – 260mm
- Fluidity Maintenance : >2 hours
- Characteristic Strength at 28 Days : >30N/mm²
- Flexural Strength at 28 Days : 4-6N/mm²
- Density : 2,200kg/m³
- Thermal Expansion : 0.012mm/m^oK
- Shrinkage/Expansion Movement : <0.02%
- Thermal Conductivity : 1.6W/m^oK
- Fire Rating (BS 476: Part 4) : Non-combustible
- Drying Time at 20°C, 60%RH. ≤40mm tks : 1day/mm
>40mm tks : Add 2days/mm
- Minimum Thickness : Bonded 25mm
Unbonded 40mm
Floating 40mm
- Min cover over UFH pipes : 35mm