

SHG SÜdanit 280 Alpha Hemi Hydrate Screed

SÜdanit 280 Alpha Hemi Hydrate Screed is a pumpable, high-quality screed material based on calcium sulphate. It is supplied using a pre-blended compound and is mixed on site with a special blend of approved aggregates to EN 13813: 2002. It is designed for application at thicknesses of between 20 and 90 mm. SÜdanit 280 Alpha Hemi Hydrate Binder complies with EN 13454-1: 2004 and is CE marked.

- Smooth Laitance Free Finish
- Pumpable
- Under Floor Heating – Full Encapsulation
- Suitable For Underlayment In Wet Areas
- Reduced Drying Times
- CE Marked
- EN 13454-1: 2004 / EN 13813: 2002

Field Of Application

SÜdanit 280 Alpha Hemi Hydrate Screed is suitable for floors in homes, offices, public buildings and places exposed to similar loads. SÜdanit 280 Alpha Hemi Hydrate Screed may be applied as a levelling screed directly onto a load bearing floor, unbonded on a separating barrier (polythene), as a floating floor and is particularly suited in conjunction with underfloor heating or cavity floors. SÜdanit 280 Alpha Hemi Hydrate Screed should be covered with a floor finish such as tiles, linoleum, parquet, cork or carpet. If a cement based adhesive or smoothing compound is required, the surface of the screed must first be sealed using an appropriate acrylic primer/sealer.

Working Instructions

Light ventilation in the work area is necessary, however windows and openings must be closed sufficiently to avoid draughts, during and after application. Indoor and floor temperature should exceed +10°C during and after application and for one week after that.

Substrate

SÜdanit 280 Alpha Hemi Hydrate Screed is designed for use as a bonded thick levelling screed on concrete, as a floating screed over thermal or acoustic insulation, or as an unbonded screed on top of a plastic membrane.



Preparation and Priming

The substrate should be clean, dry, free of dust, grease and other impurities that might prevent adhesion. If it is a large area, the surface should be treated by mechanical preparation by grinding or shot blasting. The surface strength of the substrate has to be at least 0.5 N/mm². Dry and very porous substrates must be primed twice. If SÜdanit 280 Alpha Hemi Hydrate Screed is to be applied on plastic sheeting or as a floating floor, a gap of minimum 8mm should be formed around the perimeter (walls, columns, etc)

Mixing

SÜdanit 280 Alpha Hemi Hydrate Screed should be mixed with approved sands and clean water. Mixing time, if using a hand held mixer, is 2 minutes. Do not mix more material than can be laid in 20 minutes. A suitable mixing pump e.g Putzmeister SP11 should be used for large areas. The best temperature for mixing is between 10 - 20°C.

Application

Pumping should be carried out in sections so that a wet edge is maintained. A wide steel tampering bar should be used to assist the levelling process. When applied bonded, the minimum thickness of SÜdanit 280 Alpha Hemi Hydrate Screed should be 20mm. Over underfloor heating, this should be a minimum of 25mm over the pipes (35mm over insulation board)

Technical Information

Screed Specification EN 13813: 2002	
Maximum Thickness	90mm
Minimum Thickness	Bonded: 20mm Unbonded: 30mm Domestic: 35mm Commercial: 40mm Over Underfloor heating Pipes: 25mm (BS 8204-7)
Use (External Use)	No
Use (Internal Use)	Yes
Compressive Strength (28 days)	>25 N/mm ² >30 N/mm ²
Flexural Strength (28 days)	> 5 N/mm ² > 7 N/mm ²
Tensile Adhesion	> 1.5 N/mm ²
Shrinkage (28 days)	< 0.1 %
Flow Rate	220 – 260mm
Hardening Time (before foot traffic)	8 – 12 hours
Hardening Time	Final Covering: 2 – 6 weeks dependent on thickness and drying conditions
Recommend water content	14 – 16 %
Pot life	Maximum 40 minutes depending on ambient conditions
Reaction To Fire	A1 Non Combustible
Thermal Conductivity	1.6 W/mK



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