

Floor 4490 Alpha screed

Self Levelling Base Screed

Product description

Calcium Sulphate screed
Floor 4490 Alpha screed is a pumpable, high-quality screed material based on calcium sulphate. It is supplied as a pre-blended dry powder and is designed for application at thicknesses of between 20 and 50 mm. The system has been used extensively across Europe and complies with CUR- Recommendation 62, Levelling screeds with Calcium Sulphate as a binding agent in The Netherlands

Application field

4490 Alpha screed is suitable for floors in homes, offices, public buildings and places exposed to similar loads. Floor 4490 Alpha screed may be applied as a levelling screed directly onto a load bearing floor, unbonded screed on a separating barrier, as a floating floor and may be used in conjunction with underfloor heating or cavity floors. Floor 4490 Alpha 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 Alpha screed must first be sealed, using the appropriate maxit-UK sealer.

Properties

- pumpable
- easy workability
- suitable for underfloor heating
- reduced drying time
- can be used as an underlayment in wet areas
- smooth finish

Working instructions

Light ventilation in the work area is necessary, but windows and openings must be closed sufficiently to avoid draughts, during and after application. Indoor and floor temperature should exceed + 10C during and after application and for one week after that. The relative humidity of the substrate and surroundings may not fall below 50%

Substrate

Floor 4490 Alpha screed is designed for use as a bonded thick levelling screed on concrete. In addition it can also be applied 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 MPa (N/mm²). The substrate is vacuum-cleaned and primed with Floor 4716 Dispersion primer according to maxit substrate recommendations. Dry and very porous substrates must be treated twice. If Floor 4490 Alpha 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

Floor 4490 Alpha screed should be mixed with 3.5 litres of water per 25kg bag, or 14% (m/m) of dry powder. Do not exceed the recommended quantities as too much water leads to a reduction in the overall strength of the cured material. Mixing time, if using a hand held drill and paddle, is 2 minutes. Do not mix more material than can be laid in 20 minutes. A suitable mixing pump system, approved by maxit, should be used for mechanical mixing. The best temperature for mixing is between 10-20C.

Mixing equipment

Drill with paddle mixer (For small areas)
m-tec Duomix 2000
m-tec PD 100
Silo + SMP

Application

Pumping is carried out in sections so that a wet edge is maintained. A wide steel "wobble" bar is used to assist the levelling process. When applied bonded the minimum thickness of Floor 4490 Alpha screed should be 20mm, over underfloor heating this should be a minimum of 25mm over the pipes.

Storage

6 months under dry conditions

Product Specification

Material consumption	1mm = 1.9kg 20mm = 38kg 40mm = 76kg
Hardening time before foot traffic	16 hours
Hardening time	Final covering 2-6 weeks dependent upon thickness and drying conditions

Product Specification

Minimum thickness	Bonded - 20mm, Unbonded - 30mm, Domestic - 35mm, Commercial - 40mm, Over under-floor heating pipes 25mm according to BS 8204-7
Maximum thickness	50
Use	
External use	No
Internal use	Yes
Water demand	3.5 litres/25kg bag 14%
Compressive strength	
28 day	> 20
Flexural strength	
28 day	> 4
Tensile adhesion strength	
28 day	> 1.5
Shrinkage	
28 days	< 0.02
Flow rate according to (Alpha ring, Haegermann cone)	220-260 mm
Recommended water content	14%
Pot life	Maximum 40 minutes depending upon ambient conditions.

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