

PRODUCT DATA SHEET

Reference: TDS02AU54021

ALPHA SL 5-40

Quartzline Alpha SL 5-40 is a gypsum-based levelling compound for indoor levelling of anhydrite, concrete, sand-cement and timber substrates in layer thicknesses of 5 to 40 mm.

Alpha SL 5-40 has low shrinkage and stress, fast curing, is easily pumpable and sandable after setting. Suitable for use with underfloor heating. Not suitable for industrial or damp areas.



APPLICATION CONDITIONS:

Substrate temperature	Minimum 8°C, maximum 30°C
Ambient temperature	Minimum 8°C, maximum 30°C
Relative humidity	< 75% R.H.
Dew point	Beware of condensation

The temperature of the substrate and the uncured material must be at least 3 °C above the dew point to prevent condensation, efflorescence and laitance formation.

SUBSTRATE PREPARATION:

The substrate must be fully cured and structurally sound, free from loose particles, contaminants, cracks, bleeding and a calcium carbonate layer. It must have a minimum load-bearing capacity of 25 N/mm² and a minimum adhesion strength of 1.5 N/mm².

Fill surface defects with Quartzline Cementitious MRP or Alpha MRP, depending on the type of substrate.

For concrete and sand-cement substrates, a maximum residual moisture content of 2.5% CM applies. If the residual moisture content is up to 6% CM, apply two coats of Quartzline Primer DPM moisture barrier, followed by one coat of Quartzline Primer GP. For anhydrite substrates, a maximum residual moisture content of 0.5% CM applies, and no moisture barrier may be used.

Always use a primer. Use Quartzline Primer Universal for porous substrates and Quartzline Primer GP for non-porous substrates.

Switch off underfloor heating at least 48 hours before, during and after installation. For new-build floors with underfloor heating, follow a start-up and cooling protocol.

CONSUMPTION:

The consumption of Alpha SL 5-40 is 1.8 kg/m² of powder per mm of layer thickness.

APPLICATION:

4.5 litres of water per 25-kilogram bag of powder.

Measure out 4.5 litres of water using a Collomix AQiX water dosing unit or a set of scales into a clean bucket. Add one bag of Alpha SL 2-20 and mix for 3 minutes with a Quartzline DLX152 HF mixing paddle until a homogeneous mixture is achieved.

Pour the levelling compound onto the primed substrate and spread it with a trowel, notched squeegee or Swedish trowel until the desired layer thickness is achieved.

CHARACTERISTICS:

Gypsum-based
Solvent-free
Polymer modified
Pumpable
Suitable for many purposes
Suitable for various after-treatments
Fast curing and drying
Self-levelling

TECHNICAL PROPERTIES:

Density ¹ (g/cm ³)	1.8
Compressive strength ² (N/mm ²)	> 25
Flexural strength ² (N/mm ²)	> 6

1 = ISO 2811-1/+ 23°C/50% R.H.

2 = ISO 196-1 / @ 28 days / + 23°C/50% R.H.

INFORMATION:

Form: 25 kg bag, powder, white to light yellow

Shelf life: Up to 6 months after the production date in the original, sealed, unopened and undamaged packaging, stored dry between 5°C and 30°C.

CURING TIME:

Phase	Time (at 20°C)
Pot life	ca. 30 min
Walkable	ca. 3 hours
Floor covering ready (at 5 mm)	ca. 72 hours

*The curing time strongly depends on the applied layer thickness and conditions.



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IMPORTANT NOTES:

- Do not mix with other flooring products.
- The substrate must be properly primed so that water remains available for the levelling compound.
- Protect freshly applied Alpha SL 5-40 from moisture, sunlight and draughts for at least 24 hours.
- Do not add any more water once the product begins to react.
- Alpha SL 5-40 is not suitable for damp areas.
- After curing, grind Alpha SL 5-40 with sanding mesh (180 grit) before applying the next finish.

LEGAL NOTICE:

The information and recommendations provided are based on Quartzline's current knowledge and experience when used correctly under normal conditions. Due to variations in materials, substrates and conditions, no guarantee or liability can be accepted for suitability or application. Quartzline reserves the right to change product properties. Third-party property rights must be respected. All deliveries are subject to the applicable terms and conditions of sale and delivery.

VALUE BASE:

All technical data in this product data sheet are based on laboratory tests. Data may vary depending on conditions.

HEALTH AND SAFETY:

For information and advice on the safe handling, storage and disposal of chemical products, the user must consult the most recent product safety data sheet, containing information on physical, ecological, toxicological and other safety-related data.