

PRODUCT DATA SHEET

Reference: TDS02AU540F21

ALPHA SL 5-40F



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

Alpha SL 5-40F is low shrinkage and stress, fast curing, easily pumpable and sandable after setting. Suitable for encapsulating dry-construction underfloor heating systems. Not suitable for industrial or wet 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

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.

Before encapsulating dry-laid underfloor heating, first apply Quartzline Primer Universal to the underfloor heating using a spray unit.

Switch off the 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 5-40F is 1.6 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 5-40F and mix for 3 minutes using a Quartzline DLX152 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:

Fiber-reinforced
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)	> 30
Flexural strength ² (N/mm ²)	> 7

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 pale 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.

Pot life:

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.



ALPHA SL 5-40F

IMPORTANT NOTES:

- Do not mix with other flooring products.
- Finish the floor within 7 days to prevent crack formation.
- The substrate must be properly primed so that water remains available for the levelling compound.
- Protect freshly applied ALPHA SL 5-40F from moisture, sunlight and draughts for at least 24 hours.
- Do not add any more water once the product has started to react.
- Alpha SL 5-40F is not suitable for damp areas.
- After curing, grind Alpha SL 5-40F 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, assuming correct use under normal conditions. Due to variations in materials, substrates and conditions, no guarantee or liability can be accepted regarding 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.

