

ALPHA SL 5-40F

Quartzline Alpha SL 5–40F is a fibre-reinforced, gypsum-based levelling mortar for the interior levelling of anhydrite, concrete, sand-cement, tiled and wooden substrates in layer thicknesses of 5 to 40 mm.

Alpha SL 5-40F is low in shrinkage and stress, fast-hardening, easy to pump and, once cured, easy to sand. Suitable for encasing dry-construction underfloor heating systems. Not suitable for industrial or wet areas.



FEATURES

- Fibre-reinforced
- Gypsum-based
- Solvent-free
- Polymer-modified
- Pumpable
- Suitable for many purposes
- Suitable for various finishes
- Fast through-curing and drying
- Self-levelling

TECHNICAL PROPERTIES

Property	Unit	Value
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

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	Min. 3 °C above the dew point

SUPPLY FORM

Packaging	Consistency	Appearance
25 kg bag	Powder	White to light yellow

STORAGE & SHELF LIFE

Shelf life	Up to 6 months from production date
Packaging	Original, sealed, unopened and undamaged
Storage conditions	Dry, between 5 °C and 30 °C

SURFACE PREPARATION

The substrate must be fully cured and structurally sound, free of loose parts, contamination, cracks, bleeding and calcium carbonate skins, with a minimum load-bearing capacity of 25 N/mm² and a minimum adhesion strength of 1.5 N/mm².

Fill surface damage 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. For anhydrite substrates, a maximum residual moisture content of 0.5% CM applies.

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

For encasing dry-construction underfloor heating, first apply Quartzline Primer Universal to the underfloor heating with a pressure sprayer.

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 cool-down protocol.

CONSUMPTION

The consumption of Alpha SL 5-40F is 1.6 kg/m² of powder per mm of layer thickness.

MIXING

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

Dose 4.5 litres of water into a clean bucket using a Collomix AQiX water metering device or a scale. Add one bag of Alpha SL 5–40F and mix for three minutes with a Quartzline DLX152 mixing paddle until homogeneous.

APPLICATION

Pour the levelling mortar onto the primed substrate and spread it with a trowel, notched squeegee or smoothing blade until the desired layer thickness is reached.

CURING TIME

Pot life	approx. 30 min
Walkable	approx. 3 hours
Ready for floor covering (at 5 mm)	ca. 72 uur

The times stated apply under normal conditions at 20 °C and depend strongly on the applied layer thickness. Higher temperatures may shorten these times and lower temperatures may extend them.

REMARKS

- Do not mix with other floor products.

- Finish the floor within 7 days to prevent cracking.
- The substrate must be properly primed so that the water remains available to the levelling mortar.
- 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 begins to react.
- Alpha SL 5-40F is not suitable for wet areas.
- After curing, sand Alpha SL 5–40F with a sanding mesh (grit 180) before applying the next finish.

BASIS OF VALUES

All technical data in this product data sheet is based on laboratory tests. Data may change depending on the conditions.

HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, the user should consult the most recent safety data sheet (SDS), regarding the physical, ecological, toxicological and other safety-related data.

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 warranty or liability can be accepted for suitability or application. Quartzline reserves the right to change product properties. Third-party proprietary rights must be respected. All deliveries are subject to the applicable terms and conditions of sale and delivery.