SILENCIO DB

Quartzline Silencio dB is a two-component, solvent-free, self-levelling poured floor based on aromatic polyurethane with elastic and damping properties. Suitable for rooms where a sound-damping underlay is required.

Silencio dB contributes to the comfort of a Quartzline SL-PU system, especially in combination with the softer variants such as SL-PU UV, SL-PU UV HD and SL-PU D30.



CE

CE according to EN 13813 (DoP11SILDB018).

FEATURES

- Soft, flexible and elastic
- Aromatic
- Liquid-tight
- Solvent-free
- Damping
- Viscous

TECHNICAL PROPERTIES

Property	Unit	Value
Shore hardness[1]	Shore A	> 60
Electrical conductivity	–	Insulating
Density[2]	g/cm³	1,0
Adhesion strength[3]	N/mm²	> 1.5 (concrete failure)
Impact sound improvement ΔLw[4]	dB	17
Impact sound improvement ΔLlin[4]	dB	7

[1] DIN 53505, 28 days / +23 °C / 50% R.H [2] ISO 2811-1, +23 °C / 50% R.H [3] EN 4624, 14 days / +23 °C / 50% R.H [4] EN ISO 10140-3 / EN ISO 717-2, approx. 5 mm Silencio dB with approx. 3 mm top layer (Peutz A 3495-2-RA-001)

APPLICATION CONDITIONS

Substrate temperature	Minimum 10 °C, maximum 25 °C
Ambient temperature	Minimum 10 °C, maximum 25 °C
Substrate moisture content	< 4% (test via a calcium carbide measurement)
Relative humidity	< 70% R.H.
Dew point	Min. 3 °C above the dew point

The temperature of the substrate and of the uncured material must be at least 3 °C above the dew point to reduce the risk of condensation, white discoloration or foaming on the floor finish.

SUPPLY FORM

Component	Consistency	Appearance
A	Liquid	Black
B	Liquid	Light brown transparent

SET SIZES

Set size	Component A	Component B	Packaging
15 kg	12,6 kg	2,4 kg	Bucket + jerry can

Mixing ratio A : B = 84 : 16 (parts by weight). Each set contains one component A and one component B.

STORAGE & SHELF LIFE

Shelf life	Up to 12 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 sound, clean, dry and free from dirt, oil, grease and other contaminants, with a minimum compressive strength of 25 N/mm² and a minimum adhesion strength of 1.5 N/mm².

Remove weak concrete and loose levelling layers. Fill holes and cavities with Quartzline Epoxygel or the appropriate Quartzline MRP. Level uneven substrates with the appropriate Quartzline levelling compound.

CONSUMPTION

Layer thickness	Consumption
4 mm	ca. 4.000 g/m²
5 mm	ca. 5.000 g/m²
6 mm	ca. 6.000 g/m²

MIXING

Mixing ratio: component A : component B = 84 : 16 (parts by weight).

Add component B completely to component A and mix for 2 minutes with a powerful mixer at low speed (300 – 400 RPM) with a Quartzline WK 90 mixing paddle until homogeneous. Pour the mixture into a clean bucket and mix intensively again for at least 1 minute to avoid unmixed material at the side and bottom. Avoid mixing too fast or too long to prevent air entrapment.

APPLICATION

Before application, check the moisture content of the substrate, the R.H. and the dew point.

Pour out Silencio dB and spread it evenly with a flat trowel. Preferably empty the bucket in one go, as the material reacts quickly when it remains in the bucket.

CURING TIME

Pot life	20 min
Dust dry	4.5 hours
Can be walked on	12 hours

The times stated apply under normal conditions at 20 °C. Higher temperatures may shorten these times and lower temperatures may extend them.

REMARKS

- Do not use Silencio dB on substrates with rising damp.
- Protect freshly applied Silencio dB from moisture, condensation and water for at least 24 hours (+20 °C).
- Uncured material reacts with water (foaming). Therefore prevent drops of sweat from falling into the material during application and use Quartzline head and wrist bands.
- Process mixed material immediately: at the end of the pot life, flow and de-aeration decrease.
- Assess and treat cracks properly to prevent recurring cracking.
- Unevenness and dirt in the substrate remain visible after applying a thin layer. Clean the substrate and adjacent surfaces thoroughly beforehand.
- Underfloor heating or a high ambient temperature, combined with a high point load, may in certain circumstances lead to indentations in the resin.
- For heating, use only electrically powered hot-air blowers.
- Use material with the same batch numbers for an exactly matching colour.

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.