

## Silencio dB

### Description

Silencio dB is a two component, solvent-free self-levelling acoustic membrane, based on aromatic polyurethane with very soft, flexible and soundproofing properties. Silencio dB is the ideal product to use in areas that need a soundproof substrate and makes a great addition to the comfort properties of the Quartzline SL-PU system, especially in combination with the softer systems such as the SL-PU UV, SL-PU UV HD and De SL-PU D30.

### Properties

Soft, flexible and elastic

Aromatic

Watertight

Solvent free

Damping

Viscosity

Shore Hardness <sup>1</sup> > A60

Electrical conduction isolated

Density <sup>2</sup> (g/cm<sup>3</sup>) 1,0

Adhesive strength <sup>3</sup> (N/mm<sup>2</sup>) > 1.5  
(concrete fracture)

<sup>1</sup> = DIN 53505, 28 days/+ 23°C/50% R.H

<sup>2</sup> = ISO 2811-1, + 23°C/50% R.H

<sup>3</sup> = EN 4624, 14 days/+ 23 °C/50% R.H

### Form

**Component A:** Liquid, black  
**Component B:** Liquid, light brown transparent

### Packaging

Component A: 12,6 kg bucket  
Component B: 2,4 kg jerrycan  
Component A+B: 15 kg set

### Shelf life / Storage

Up to 12 months after the production date when kept in the original, sealed, unopened and undamaged packaging and stored dry between +5°C and +30°C.

### Application

**Mixing ratio:** Component A: Component B = 84: 16 (parts by weight)

Add component B to component A and mix continuously for 2 minutes until a uniform mixture has been achieved.

To ensure thorough mixing and incorporation of all components pour the materials into a clean second container and mix for another minute.

Avoid the inclusion of air bubbles by not mixing for longer than recommended at high speeds. Mixing is preferably done with a power mixer on a low speed, 300 – 400 RPM, using a Quartzline WK 90 mixer paddle.

#### **Primer for porous substrates:**

On porous surfaces use SL- EP Scratchcoat or Primer BHH, which can be mixed optionally with Microdol A100 filler. This primer will penetrate the substrate and ensure a strong mechanical bond.

**Primer for non-porous substrates:**

Quartzline Primer GW should be used on non-absorbent substrates. This primer has very good physical adhesion.

**When in doubt, perform an initial adhesion test.**

**Scratch coat:**

To level and seal the substrate a scratch coat is necessary, use Quartzline SL-EP, SL-PU Scratchcoat or Primer BHH with Microdol A100.  
A scratch coat is preferably applied at 0,5 to 1 kg per square metre

**Damping: Quartzline Silencio dB**

**Wearing course:** The following Quartzline floor systems can be used:

- SL-PU D30
- SL-PU D60
- SL-PU D70
- SL-PU UV
- SL-PU HD

**Topcoat** Coating PU MG Matt or Satin Gloss and Coating PU SG Coloured or Satin Gloss or Matt.

Refer to the relevant Technical Data Sheet when choosing floor and coating combinations.

**FOR ALL SELF-LEVELING SYSTEMS THE FOLLOWING APPLIES:**

**After applying the primer and optional scratch coat, the surface must be sealed BEFORE the self-levelling layer is applied. This is done to avoid blisters and holes in the finishing coat.**

**Quartzline Silencio dB can be part of the following systems:**

Deco-Line Comfort Ultra

Deco-Line UV Ultra

### Consumption

Coating system	Product	Consumption
Primer	Primer BHH	125 - 250 gr/m <sup>2</sup>
	SL-EP Scratchcoat	150 - 500 gr/m <sup>2</sup>
	Primer GW	100 - 150 gr/m <sup>2</sup> .
Scratch coat (optional)	Primer BHH + vulstof A100	500 - 1000 gr/m <sup>2</sup>
	SL-EP Scratchcoat	500 - 1000 gr/m <sup>2</sup>
	SL-PU Scratchcoat	500 - 1000 gr/m <sup>2</sup>
<b><u>Wearing course</u></b>		
<b>4 mm layer thickness</b>	<b>Silencio dB</b>	~ 4000 gr/m <sup>2</sup>
<b>5 mm layer thickness</b>		~ 5000 gr/m <sup>2</sup>
<b>6 mm layer thickness</b>		~ 6000 gr/m <sup>2</sup>
Wearing course	SL-PU D30, SL-D60, SL-PU D70 SL-PU UV or SL-PU UV HD	See relevant TDS
Topcoat (compulsory)	1-2 x Coating PU SG Matt, SG Satin Gloss or SG Coloured	See relevant TDS

### Substrate preparation

The substrate must be sound and of sufficient compressive strength (minimum 25 N / mm<sup>2</sup>), with a minimum pull-off strength of 1,5 N/mm<sup>2</sup>.

The surface must be clean, dry and free of all contaminants such as dirt, oil, grease, previous coatings and surface treatments.

The concrete or screed substrate must be primed. Uneven substrates must be levelled in order to achieve an even substrate. Use Quartzline Cementitious SL Underlayment or Cementitious SL Constructive. Please see corresponding Technical Data Sheet for more information.

Weak concrete and loose cementitious levelling must be removed, and surface damage such as blowholes and voids must be repaired with Quartzline Epoxy Gel and then primed again

Before applying the product, all dust and loose parts must be fully removed, preferably using a brush and/or industrial vacuum cleaner.

If the surface is older than 48 hours, always perform a preliminary adhesion test.

## Application conditions

Surface temperature:	Minimum 10°C, maximum +25 °C
Ambient temperature:	Minimum 10°C, maximum +25 °C
Substrate moisture content:	< 4% damp To be tested with a carbide meter.
Relative air humidity:	Maximum 70% R.H.
Dew point:	Beware of condensation!

The substrate and uncured floor must be at least 3°C above dew point to reduce the risk of condensation or efflorescence on the floor finish.

## Application conditions

Processing time @ 20 °C	20 minutes
Touch dry @ 20 °C	4,5 hours
Foot traffic @ 20 °C	12 hours

Check the R.H. and dew point before application.

To avoid rapid hardening, apply the complete bucket contents in one go and then distribute Silencio dB evenly using a flat trowel.

## Remarks

Silencio dB must not be applied to surfaces with rising damp/moisture.

Freshly applied Silencio dB must be protected from damp, condensation and water for a minimum of 24 hours. (+20 °C).

Unhardened material will react with water (foaming) therefore it is advisable to wear Quartzline head and wrist bands to reduce the chance of sweat falling onto the mixture.

Mixed materials must be processed immediately as flow and defoaming will be reduced when pot life date expires and the material becomes stiff and unworkable.

Wrong assessment and treatment of cracks can result in a reduction of lifespan and recurring cracking.

Uneven or dirt covered substrates and adjacent areas should always be thoroughly prepared and cleaned prior to application.

Underfloor heating and high temperatures combined with a high point load can, in certain circumstances result in disfiguration of the resin.

If heating is required, do not use gas, oil, paraffin or other fossil fuel burners. These produce large quantities of CO<sub>2</sub> and water vapour, which can adversely affect the finish. For heating, only use electrically powered hot air ventilation systems.

Always use corresponding batch numbers to ensure matching colours.

### **Cleaning/maintenance**

To maintain the appearance of the floor after application, the floor must be kept clean and all spillages removed immediately.

The floor must be cleaned regularly using a rotary brush, mechanical scrubbers, scrubber dryer, high pressure washer, wash and vacuum techniques etc.

Always use suitable detergents and waxes.

**Clean the floor with tepid water. Never use hot water (warmer than 40 °C).**

### **Value base**

All technical data stated in this technical data sheet is based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

### **Health and safety information**

For information and advice on the safety handling, storage and disposal of chemical products, users should refer to the most recent material safety data sheet containing physical, ecological, toxicological and other safety related data.

### **Legal notes**

This information, and in particular the recommendations related to the application and end use of Quartzline products, is provided in good faith based on our current knowledge and experience of the products. It is valid for products that are correctly stored, treated and applied under normal conditions in accordance with Quartzline's recommendations.

In practice, differences in materials, substrates and actual on-site conditions are such that no warranty in respect of merchantability or of suitability for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered.

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