

## PU Sealcoat

### Description

PU Sealcoat is a two component, solvent-free, polyurethane sealing compound. Highly effective for sealing and levelling Quartzline's rubber matting.

All pores must be sealed before the application of any self-levelling system.

### Properties

Extremely good adhesion	
Long-lasting elastic properties	
Solvent-free	
Shrink-proof	
Easy application	
Viscosity (Pa.s)	2000-3000
Shore Hardness <sup>2</sup>	D30
Density <sup>3</sup> (g/cm <sup>3</sup> )	1,34
Tensile strength <sup>4</sup> (N/mm <sup>2</sup> )	> 5
Elongation at break <sup>4</sup> (%)	> 60
Adhesive strength <sup>5</sup> (N/mm <sup>2</sup> )	> 1,5

<sup>1</sup> = Brookfield, LV4, 30 RPM, @ 23°C (Only A-Component)

<sup>2</sup> = DIN 53505, 14 days/ + 23°C / 50% R.H

<sup>3</sup> = ISO 2811-1, + 23°C / 50% R.H @ 28 days

<sup>4</sup> = ISO 527/ + 23°C / 50% R.H @ 28 days

<sup>5</sup> = EN 4624, 14 days/ + 23°C / 50% R.H

### Form

Component A: Light grey paste  
Component B : Brown liquid

### Packaging

Component A: 12,5 kg bucket  
Component B: 2,5 kg bottle  
Component A+B: 15 kg sets

### Shelf life/storage

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

### Mixing

**Mixing ratio:** Component A : Component B = 83,33 : 16,67 (by weight)

Add the complete contents of component B to component A and mix continuously for 2 minutes into a homogeneous mixture.

Then pour the mixture into a clean bucket and mix again for 1 minute. This will prevent unmixed parts on the edge and/or bottom of the bucket.

**To minimize air inclusions do not mix too quickly.**

**Air that has not been mixed in, doesn't have to come out during curing.**

Mixing is preferably done with a powerful mixer such as the Quartzline WK 90 mixer on a low speed (300 – 400 RPM).

## **System construction**

**Adhesion:** Use PU Adhesive to bond Quartzline's rubber matting with various substrates.

**Damping:** Quartzline's Rubber Mat, granulated rubber mattings in various thicknesses, standard thickness is 5 mm.

**Sealing compound:** **PU Sealcoat**

**Scratchcoat:** Once sealed, the Rubber Mat can be treated with a Quartzline D30 or D60 quality PU Scratchcoat.

## **Wearing**

**course:** The following Quartzline floor systems can be applied:

- SL-PU D30
- SL-PU D60
- SL-PU UV

**Topcoat:** See corresponding self-levelling PU datasheets for the right topcoat.

## **FOR EACH RUBBER MAT SYSTEM THE FOLLOWING APPLIES:**

**After applying the sealcoat and possibly scratch coat the surface must be completely sealed BEFORE the self-leveling layer is applied. This will prevent blisters and holes appearing in the finishing coat.**

## **The Quartzline PU Adhesive is part of the following systems:**



- **Quartzline Deco D30 Ultra**
- **Quartzline Deco UV Ultra**

### Consumption

Substrate	Product	Consumption
Rubber adhesive/Glue	PU Adhesive	~ 700 g/m <sup>2</sup>
Granulated rubber mats	Rubber Mat	
<b>Sealing compound</b>	<b>PU Sealcoat</b>	<b>350 - 450 g/m<sup>2</sup></b>
Scratch coat	SL-PU D30 or SL-PU D60	500 – 1000 g/m <sup>2</sup>
<u>Wearing course</u> 1 mm layer thickness 2 mm layer thickness 3 mm layer thickness	SL-PU D30 or SL-PU D60 or SL-PU UV	Please see relevant TDS
Topcoat	Coating PU SG Coloured	150 - 200 g/m <sup>2</sup>
Extra Topcoat (optional)	Coating PU SG Transparent	150 - 175 g/m <sup>2</sup>

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.

When in doubt, perform a preliminary adhesion test.

### Substrate preparation

Concrete substrate must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.

Weak concrete and loose cementitious levelling must be removed and surface damage such as blowholes and voids must be repaired with Quartzline Epoxygel and then primed again. Never use polyester putty, this will result in bad adhesion.

All dust, loose and friable material must be fully removed from all surfaces before applying the product, preferably using a brush and/or industrial vacuum cleaner.

## **Application conditions**

Surface temperature:	Minimum 10°C, maximum +25 °C
Ambient temperature:	Minimum 10°C, maximum +25 °C
Moisture content substrate:	< 3% moisture Perform a carbide measurement.
Relative air humidity:	Maximum 80% 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**

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

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

Apply with a serrated trowel the PU Adhesive directly onto the substrate parallel to an applied chalk line. The TKB B2 trowel is the correct tool to apply the right thickness in one go.

The full contents of the mixture should be poured out as quickly as possible (within the potlife) and should be spread out immediately. Roll out the shockpad into the wet adhesive and press down with a weighted roller (Linoroller) of around 50 kg during the tack-phase.

Make sure that the PU Adhesive is applied 6 to 10 cm beyond the edge of the shockpad parallel to the Chalk Line.

Leave 1 cm free between the edges of the shockpad and the wall so that the shockpad can expand.

Next day fill this joint and seal the pores of the rubber mat with PU Sealcoat.

Apply the PU Sealcoat by trowel or Squeegee.

## **Remarks**

Do not apply the PU Sealcoat on substrates with rising moisture.

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Freshly applied PU Sealcoat must be protected from damp, condensation and water for at least 24 hours

Mixed materials must be processed immediately as flow and defoaming will be reduced when pot-life date expires.

Under certain conditions, underfloor heating combined with high point loading, may lead to imprints in the resin.

If heating is required do not use gas, oil, paraffin or other fossil fuel heaters. These produce large quantities of both CO<sup>2</sup> and water vapour which may adversely affect the finish. For heating, only use electric powered warm air blower systems.

Do **not** use any underfloor heating during application or for the first 48 hours, after this period you may increase the temperature gradually.

### **Cleaning/maintenance**

To maintain the appearance of the floor after application, the floor system 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 how to safely handle, store and dispose 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. The user of the products must test the product's suitability for the intended application and purpose. Quartzline reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the technical data sheet for the product concerned, copies of which will be supplied on request.