

SL PU ID

Description

SL PU ID is a solvent-free, two-component, self-levelling polyurethane floor system engineered for heavy-duty, high-wear environments.

Designed to deliver exceptional durability, the system provides outstanding mechanical strength, abrasion resistance, and long-term performance under intense traffic and load conditions. It is ideally suited for industrial facilities, carparks, warehouses, and production areas.

Properties

Mixed density	1,42 [g/cm ³]
Mixed viscosity at 23°C	~3000 mPa*s
Working time at 23°C	30 minutes
Ready for traffic at 23°C	24 hours
Fully cured at 23°C	7 days
Shore D hardness	80
Elongation at break	>100%
Crack bridging ability	1 mm
Temperature resistance	max. 90°C
Water penetration	Impervious
Adhesion to concrete	>1,5 MPa
Abrasion resistance (Taber)	<50 mg
Impact resistance	Class II

Form

Component A: Liquid, color
Component B : Liquid, yellowish to brown

Application at different stages and combining different batch numbers in one project could result in slight matting differences, to avoid this:

Order all materials for your project at the same time.

Packaging

Component A: 20 kg
Component B: 5 kg
Component A+B: 25 kg set

Shelf life/storage

Minimum 12 months when stored in original, unopened containers in dry conditions at temperatures between 15–20°C. Protect from direct sunlight.

Mixing

Mixing ratio: Component A: Component B = 80:20 (parts by weight)

Consumption

SL PU ID consumption typically ranges from 0,7 (coating) to 2.5 kg/m², depending on the applied system thickness.

Substrate preparation

All substrates must be structurally sound, clean, dry, and free from oil, grease, loose particles, and any other contaminants that could adversely affect adhesion. The product may be applied over SL PU Membrane in comfort floor systems.

The substrate must have a minimum tensile strength of 1.5 MPa, and the residual moisture content should not exceed 4%.

SL PU ID should be applied when substrate temperatures are stable or decreasing, in order to reduce the risk of bubble or void formation caused by air expansion within the substrate during rising temperatures. This is particularly important for external applications.

The curing process is influenced by ambient, material, and substrate temperatures. Lower temperatures extend pot life, open time, and curing time, while higher temperatures reduce them. Temperatures must not fall below the specified minimum until the material has fully cured. Additionally, the substrate temperature must be at least 3°C above the dew point during application and for a minimum of 24 hours thereafter (at 15°C).

Substrate temperature min. 5°C / max. 30°C

Maximum relative humidity max. 85%

Application

SL PU ID is supplied in pre-packaged units. Before mixing, the material should be homogenized by gentle stirring. Both components A and B should be preconditioned to a temperature of approximately 15-20°C. Pour the entire contents of component B into the container of component A. Mix using a low-speed electric drill (approx. 300 rpm) fitted with a suitable mixing paddle for at least 3 minutes until a homogeneous mixture is achieved. During mixing, scrape the sides and bottom of the container several times to ensure complete blending. Keep the mixing paddle submerged at all times to avoid air entrapment.

Do not apply the material directly from the original container. After mixing, decant the material into a clean container and remix for an additional 1 minute.

SL PU ID is applied using a squeegee and subsequently rolled with a spiked roller.

Cleaning/maintenance

Tools should be cleaned immediately after use with an appropriate solvent.

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.