

PRODUCT INFORMATION SHEET

Feature: TDS03UVHD018

SL-PU UV HD



SL-PU UV HD is an aliphatic, two-component, solvent-free, pigmented, self-levelling cast floor based on an aliphatic polyurethane with viscous-elastic properties. The SL-PU UV HD is a modified variant of the Quartzline SL-PU UV NF, this further development offers a higher tensile strength.

The system is used where an elastic, flexible and comfortable seamless floor finish is required. Suitable for aesthetic applications in residential environments and commercial spaces such as shops and offices.

APPLICATION CONDITIONS:

Substrate temperature	Minimum 10°C, maximum 25°C
Ambient temperature	Minimum 10°C, maximum 25°C
Moisture content of the substrate	< 4% moisture (test via carbide measurement)
Relative humidity	< 70% R.H.
Dew point	Beware of condensation

SUBSTRATE PREPARATION:

The substrate must be healthy, clean, dry, flat, have a minimum compressive strength of 25 N/mm² and an adhesive strength of at least 1.5 N/mm². Remove weak concrete and loose cementitious levelling. Fill damage, holes and cavities with Quartzline Epoxygel or Quartzline MRP. Level uneven surfaces with the suitable Quartzline Cementitious SL or Quartzline Alpha SL leveling compound (see *tds*). Carry out an adhesion test if the subfloor is older than 48 hours or if there is doubt about adhesion.

Apply a primer or scraper layer to the subfloor. Use Quartzline Primer GW for the best adhesion, with less filling power, Quartzline Primer BHH for absorbent substrates or Quartzline SL-EP Scratchcoat for highly absorbent or rough substrates. After the primer or scraper coat, apply a layer of Quartzline SL-EP or SL-PU Scratchcoat. (see *TDSs for more information*). The substrate must be completely closed before the casting layer can be applied.

Respect existing dilatations. If applicable, follow the start-up protocol for underfloor heating.

APPLICATION:

Mixing ratio: Component A : Component B = 77 : 23 (parts by weight).

Add component B completely to A and mix for at least 2 minutes with a Quartzline WK 140 HF mixing basket at 300–400 RPM until homogeneous. Pour into a clean bucket and mix intensively for another 1 minute to prevent unmixed parts on the wall and bottom. Avoid mixing too quickly or too long to avoid air entrapment.

Pour the SL-PU UV HD on the floor and spread evenly with a flat trowel. Ideally, apply the contents of the bucket in one go, as the material reacts quickly when left in the bucket.

PROPERTIES:

Flexible and elastic
Aliphatic
Liquid-tight
Solvent-free
Good chemical and mechanical resistance

TECHNICAL CHARACTERISTICS:

Viscosity ¹ (mPa.s)	3000 – 3500
Shore Hardness ²	> D50
Electrical conductivity	insulating
Density ³ (g/cm ³)	1,55
Tensile strength ⁴ @ 28d (N/mm ²)	~10
Elongation at Fracture ⁴ @ 28d (%)	≥ 65
Bond strength ⁵ (N/mm ²)	> 1.5 (Concrete fracture)

1 = Brookfield, LV4, 30 RPM, @ 23°C
 2 = DIN 53505, 28 days/+ 23°C/50% R.H
 3 = ISO 2811-1, + 23°C/50% R.H
 4 = ISO 527/+ 23°C/50% R.H
 5 = EN 4624, 14 days/+ 23°C/50% R.H

INFORMATION:

Component A: Liquid, colored, 19.25kg/9.63kg/3.85kg bucket or 0.77kg steel bottle.

Component B: Liquid, clear transparent, 5.75kg/2.87kg/1.15kg jerry can or 0.23kg steel bottle.

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



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FINISHING:

Use SL-PU UV HD in combination with 1 or 2 layers of Quartzline Coating PU SG NF Matt or Quartzline Coating PU SG NF Satin Gloss.

For a non-slip finish, add 3–5% Quartzline Anti-slip KFU.

The flooring system is suitable for application with decorative coloured flakes or for creating a concrete look finish.

For extra damping, it is possible to apply a layer of Quartzline Silencio DB or a rubber granulate mat under the casting layer.

IMPORTANT REMARKS:

- Treat cracks carefully to prevent recurrent cracking.
- Do not apply SL-PU UV HD to substrates with rising damp.
- For 1 project, always order all the material in 1 order.
- Clean the substrate and adjacent surfaces thoroughly before application.
- Underfloor heating or high ambient temperature, combined with high point loads, can lead to imprints in the resin.
- Use only electrically driven warm air fan systems.
- Protect freshly applied SL-PU UV HD from moisture, condensation and water for at least 24 hours

CLEANING / MAINTENANCE:

For a sustainable preservation of the floor, contaminants must be removed immediately. Clean the floor regularly with suitable detergents and cleaning equipment. Use lukewarm water.

LEGAL NOTICE:

The information and recommendations provided are based on the current knowledge and experience of Quartzline 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 property rights must be respected. All deliveries are subject to the applicable terms and conditions of sale and delivery.

CURING TIME:

Phase	At 20 °C
Processing time	20 min
Dust-dry	4.5 hours
Light load capacity	12 hours

CONSUMPTION:

Layer thickness	Consumption
1 mm	~ 1550 g/m ²
2 mm	~ 3100 g/m ²
3 mm	~ 4650 g/m ²

VALUE BASE:

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

HEALTH AND SAFETY:

For information and advice on the safe handling, storage and disposal of chemical products, the user should refer to the most recent product safety data sheet, covering physical, ecological, toxicological and other safety-related data.