Coating PU TR

Description

Quartzline Coating PU TR is a two-part, water-based, transparent, matt and extremely hard topcoat based on a high-grade polyurethane resin.

The coating has a very low VOC content and is easy to apply with a nice smooth finish without leaving application marks
The cured coating is very resistant to staining and offers a very good hot tyre resistance. The varying quality of rubber tires makes it impossible to provide a full guarantee on car tyre resistance, but we have tested various renowned and less renowned brands, all with positive results.

Ideal for industrial halls, logistics areas and workshops.

Use 3% to 5% Quarzline ‘’antislip kfu’’ to achieve an antiskid finish

The coating is slow drying, dust-dry after 24 hours and must dry/cure for at least two days before it can be taken into service.

Properties

Water-based	
Aliphatic, so does not yellow	
Very good hot tyre resistance	
Easy to clean	
Contains UV absorbing agents, so it slows down yellowing of any underlying layer	
Low VOC level in conformity with AgBB	
Viscosity [1] (mPa.s)	1150 – 1250
Persoz Hardness	> 250
Density [2] (g/cm^3)	1,04
Potlife @ 20 ºC (min.)	~ 30
Solidt content (%)	Ca. 38
Wear resistance [3] (mg)	~ 50
Adhesive strength [4] (n/mm$^{2)}$	> 1.5 (Concrete fracture)

[1] = Brookfield, LV3, 30 RPM, @ 23ºC
[2] = ISO 2811-1, + 23ºC/50% R.H
[3]= Taber Abrasion, CS10, 10N and 1000 cycles
[4] = EN 4624, 14 days/+ 23 ºC/50% R.H

Form

Component A: Liquid, transparent milky
Component B : Liquid, clear

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: 3,90 kg jerry can
Component B: 1,10 g bottle
Component A+B: 5 kg set

Shelf life/storage

Up to 6 months from date of production if stored correctly in the original, unopened and undamaged sealed packaging and stored dry between +5 ºC and +30 ºC.

Mixing

Mixing ratio: Component A : Component B = 78 : 22 (parts by weight)

Quartzline B.V., W.A. Boogaerdtstraat 5, NL-3316 BN Dordrecht, The Netherlands, English Edition 1.1 (12-2023)
Tel +31 78 6 513100 Fax +31 78 6177390 , http://www.quartzline.nl

While mixing add part B to part A and mix continuously for 3 minutes until a uniform mixture has been achieved.

Let it pre-react for 10 minutes. To ensure thorough mixing and to prevent unmixed parts collecting on the side and/or bottom, pour the materials through a sieve into a clean second container and mix again briefly.

If “Antiskid KFU” is needed, it should be added at this stage and mixed for another 30 seconds.

Always choose the correct mixing paddle and ensure that it is always fully submerged in the liquid. Use a Quartzline WK70 mixing paddle in combination with a five litre bucket when processing 1 set. For 2 sets combine the Quartzline WK70 mixing paddle with a 10 litre bucket and for 3 sets use the Quartzline WK90 mixing paddle in combination with a 20 litre bucket.

Always mix at the highest possible speed to achieve the best possible emulsification and create a swirling vortex in the coating. Under no circumstances must the coating be allowed to splash or absorb air, should this occur then reduce the mixing speed immediately.

System construction

Primer for porous substrates:
On porous surfaces use Quartzline “Primer BHH” which will penetrate the substrate and ensure a strong mechanical bond.

Primer for non-porous substrates:
Quartzline Primer GW is used on non-absorbent substrates. This primer has very good physical adhesion, especially for ceramic tiles.

Scratch coat: For extra levelling and/or to seal the substrate, an additional scratch coat of Quartzline “Primer BHH” with Microdol A100 filler or SL-EP Scrtchcoat could be an option.
A scratch coat is preferably applied at 0,5 to 1 kg per square meter

Wearing course: The following Quartzline floor systems can be used:
- Quartzline SL-PU D60
- Quartzline SL-PU D70
- Quartzline SL-EP 2K
- Quartzline Coating EPG Coating
- Quartzline grindvloer
- Quartzline mortel vloer afgewerkt met Quartzline Topcoat E

Topcoat: ***Coating PU TR***

Extra topcoat: An additional layer of Coating PU TR will enhance wear resistance and UV protection. **Must be applied AFTER 24 hours BUT BEFORE 48 hours.**

FOR ALL SELF-LEVELING SYSTEMS THE FOLLOWING APPLIES:
After applying the primer and optional scratch coat, the surface must be sealed BEFORE the self-leveling layer is applied. This is done to avoid blisters and holes in the finishing coat.

Consumption

Coating System	Product	Consumption
Primer	Primer BHH	125 - 250 g/m²
	SL-EP Scratchcoat	150 - 500 g/m²
	Primer GW	100 - 150 g/m²
Schraplaag (optioneel)	Primer BHH + Filler A100	500 - 1000 g/m²
	SL-EP Scratchcoat	500 - 1000 g/m²
Wearing course	See relevant TDS	See relevant TDS
Topcoat	**Coating PU TR**	**80 - 100 g/m²**

Applying quantities less than 80 g/m^2 can result in roller marks, gloss differences and irregularities in the surface.

Substrate preparation

The substrate must be sound and of sufficient compressive strength (minimum 25 N / mm²), with a minimum pull-off strength of 1,5 N/mm².

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

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

Application conditions

Surface temperature: Minimum 10ºC, maximum +25 ºC

Ambient temperature: Minimum 10ºC, maximum +25 ºC

Relative air humidity: Maximum 70% R.H.

During hardening, humidity must not exceed 70% of the maximum RH and care must be taken to ensure that sufficient ventilation and fresh air can remove the excess moisture. If the air is saturated, the film **CANNOT** dry.

Dew point: Beware of condensation!

The substrate and Coating PU TR must be at least 3ºC above dew point to reduce the risk of condensation or efflorescence on the floor finish.

Application

Processing time	40 minutes @ 10 ºC 30 minutes @ 20 ºC 20 minutes @ 30 ºC
Touch dry @ 20 ºC	2 hours
Foot traffic @ 20 ºC	24 hours
Light traffic @ 20 ºC	48 hours
Fully cured @ 20 ºC	7 days

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

Pour a small quantity of mixed material into a bucket and work the edges with a brush and a 10 cm microfiber roller. To avoid accelerated drying and application marks on floor do not work too far ahead.

Depending on the size of the application area, use either a 25 cm or preferably a 50 cm wide microfiber roller to apply the coating. Pour out a puddle and spread it from there.

Apply the coating quickly and evenly. Always work wet on wet.

Try to minimize drafts during application by keeping windows and doors closed. This is to prevent too rapid drying. However, once the coating has been applied and leveled out, it's important to ventilate to prevent the air from becoming saturated with water vapor. If not ventilated and the coating remains wet for too long, there's a possibility of surface disturbances and insufficient filming of the coating.

In spaces that are difficult to ventilate, such as bathrooms, extra ventilation should be provided.

Ensure no glossy patches or shiny spots are left due to the roller absorbing the coating.

See www.quartzline.nl for the instruction video.

Work as quickly as possible and always within the pot life, which will depend on the temperature (20 min. at 30 °C - 40 min. at 10 °C).

Caution!: Approaching the end of pot life cannot be visually anticipated.

Remarks

After application Quartzline Coating PU TR must be protected from damp, condensation and water for at least 7 days (+20 °C).

Uneven or dirt covered substrates should not be treated with thin coatings. Both substrate and adjacent areas should always be thoroughly prepared and cleaned prior to application.

The incorrect assessment and treatment of cracks may lead to a reduced service life and recurrent cracking.

If heating is required do not use gas, oil, paraffin or other fossil fuel heaters as they produce large quantities of both CO^2 and water vapour which may adversely affect the finish.
Only use electrically powered warm air blower systems when heating is needed.
Switch off underfloor heating during application and for the first 48 hours, after this period you may increase the temperature gradually.

Coating PU TR cannot be used on SL-PU UV, SL-PU UV NF of SL-PU D30.

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 the 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.