

vebro PU UV Seal (Silk & Clear Silk)

vebro PU UV Seal (Silk & Clear Silk) is a transparent, wear resistant, 2-component polyurethane sealer based on aliphatic chemistry with low environmentally friendly emissions.

vebro PU UV Seal (Silk & Clear Silk) is used as a colour stable, transparent matt finish sealer for tough hard coating systems with light to medium duty mechanical loadings, it is advised to apply a minimum of two coats for systems that are subject to staining based attack.

Substrate Preparation

The underlying resin-based substrate must be clean and free of dust and loose particles. All traces of surface contaminants such as oils, fats, greases, paint residues, chemicals, algae, and laitance should be suitably removed by mechanical means, and if necessary using a single disc rotary floor scrubbing appliance (STR 701 or similar and approved) fitted with a new grey PU-renovation pad or suitable scotch bright pad (red, tan or white).

Application Instructions

vebro PU UV Seal (Silk & Clear Silk) is delivered in 2 component containers in the correct factory pre-filled stoichiometric ratios.

The A Component must be stirred for at least 1 – 2 minutes prior to mixing with the B Component. Whilst maintaining the stirring process of the A Component the entire contents of the B-component is emptied into the A component and the two components are mixed homogeneously together using a suitable slow speed drill fitted with a mixing paddle or whisk. For at least 2 – 3 minutes.

The mixed material should then be passed through a sieve when pouring into another container (using either a paint filter sieve with a mesh size of 0.6 – 1.0 mm, or with a household sieve with an inserted fly screen or similar synthetic fabric, mesh size <1.0 mm).

The re-potted sieved material should be mixed again briefly for a minimum of 1 minute, and the incorporation of entraining too much air should be avoid whilst re-stirring by keeping the mixing head fully immersed in the previously mixed and sieve material.

Liquid Mixture

Consumption

0.12 - 0.16 kg/m²

Film Thickness

60 – 70 µm (per coat)

Application Temperature

15 – 25 °C
(min 3 °C above dewpoint)

Packaging (Unit Sizes)

5.0 kg

Colour

Transparent silk finish, or available pigmented in a limited selection of colours.

Shelf Life

12 months in original unopened container

Storage

Dry at 10 – 25 °C, avoid direct sunlight, protect from freezing.

Working Time

Approx. 60 minutes @ 20 °C

Foot Traffic

After 16 hours @ 20 °C

Overcoating Window

18 – 36 hours @ 20 °C

The typical physical properties given above are derived from testing in a controlled laboratory environment at 20°C. Results derived from testing field applied samples may vary dependent upon site conditions.

The processed **vebro** PU UV Seal (Silk & Clear Silk) is then poured onto the clean, dry and if required appropriately prepared surface and evenly spread in one direction over then entire area with a short pile high quality microfiber roller (avoid using rollers containing loose fibres i.e. must be fluff free, multitool pile height about 6.0 – 8.0 mm, and homogeneously finished with a second roller in one direction). The formation of puddles must be subsequently avoided during application.

Please note, if working in an area with a large window or light source, start at that point and work away, using the light cast from behind to aid even and complete application.

For best results apply two coats; the first should be applied in one direction e.g. north to south and the second coat at 90° to the first e.g. east to west.

As with all sealers, it is important to avoid dry edges by always working with an open wet edge when applying fresh material into already applied wet material otherwise roller marks may be visible in the applied final finish.

Time between overlapping should not exceed 2 – 5 minutes. Open time for rolling fresh material into the already applied wet sealer without leaving any marks at ambient room temperature. The atmospheric relative humidity during the application and curing of the material should not exceed 75% RH.

Please note, inconsistent material consumption, too high atmospheric based air humidity and low substrate and air temperature can lead to visual differences (e.g. Gloss / Matt level differences).

Direct sunlight, high temperatures and low atmospheric humidity may cause rapid curing and should be avoided, otherwise this may lead to early skin formation development, or roller marks being visually evident in the cured product.

Cleaning & Maintenance

For the long-term maintenance of the properties of polymer flooring materials, a regular cleaning and care programme is recommended.

Further Information

Information relating to the safe handling of this product can be found in the Material Safety Data Sheet. Local regulations concerning the safe handling of epoxy resin based coating materials must be observed. Suitable protective clothing including suitable eye protection must be worn at all times.

All consumptions listed are for recommendation purposes only. Detailed application instructions and system build-up advice can be provided on request through our Technical Services team.

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