



UV PU Sealer / UV WaxNoMor

1 PRODUCT DESCRIPTION

Special waterbased dual-cure polyurethane sealer with subsequent UV and isocyanate crosslinking for the long term protection of floors.

- Immediately resilient after irradiation.
- Only for professional users.
- Hardwearing sealer film
- Very good resistance against colorless chemicals.

- Reduces dirt adhesion and the time needed for day-to-day maintenance.
- Easy and safe to apply with excellent adhesion.
- High solids content.
- No intrinsic yellowing.

Gloss levels:		60°-value
Satin	10:1 with Crosslinker G	15-20
Mat	10:1 with Crosslinker M	<10

The 2part application with **Crosslinker G/M** ensures crosslinking in areas which are difficult to reach for hardening with UV light. The resistance to chemicals is increased still further.

2 AREAS OF APPLICATION

Permanent surface finish following newly laid, or renovated floors in publicly frequented buildings subject to heavy mechanical wear. Minimum business interruption, due to the immediate resumption of operations in the building after UV irradiation of the floor.

- Floorings made of PVC and LVT with smooth, or slightly structured, grained surfaces with adherent installation
- Linoleum floors, if open-pored linoleum after priming with **Dr. Schutz Lino Primer**.
- Coating of decorative screed floors, which have been tested and approved by us, after priming with **Dr. Schutz Primer for Decorative Screed Floors**.
- Epoxy floors after full hardening.
- Wood and cork floors after priming with **strato classic prime 200** resp. **euku oils**.

Suitability for safety floorings, more structured surfaces and studded floors must be ascertained in the specific building before use (*).

Not recommended on soft floorings with high elasticity like very soft resin cast floorings or rubber.

Combination with Dr. Schutz Adds is possible and enhances application area.

- **Duro Plus L Add** 5:1 in mat results in an ultramat sealer.
- **R10 Antislip Add** results in a remarkable skid resistance.
- **R11 Antislip Add** structures the surface even more for enhanced skid resistance.

Please refer also to the Product Information of the mentioned products.

3 APPLICATION



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Shake up well. Add **Crosslinker G/M** to the base lacquer in a ratio of 10:1 and immediately mix thoroughly and evenly. Allow the mixture to settle for 10 minutes, then stir again and use it. Apply **UV PU Sealer** (at minimum temp. 15 °C) onto the properly prepared substrate (Please regard our Technical Information 002 "Preparation of subsurfaces") evenly 100 ml/m² with the Dr. Schutz Aquatop Roller. After the water has completely evaporated, irradiate with overlap with a suitable UV-lamp (120 W/cm², 10 cm distance, 15 m/min). Depending on the application, a second coat is possible. If required, sand between coats with gritscreen 120, but in any case before continuing to work on the surface if longer than 6 hours after irradiating.

Please note:

- The surface must be professionally prepared and in a clean, dry condition free of oil, wax and dust.
- Irradiate with good overlap of the lamp. Recommendation: ½ overlap.
- Wood, open-pored linoleum and decorative screed floors must be primed before applying **Dr. Schutz UV PU Sealer / UV Waxnomor**. It is important that such absorptive substrates have evaporated the water well prior to irradiation. We recommend to use a ventilator (**Dr. Schutz TG 1**) to ensure evaporation.
- General recommendations for setting up an application on wood floors:
 - Fill joints cleanly with strato fill 101 before fine sanding
 - Prime the surface with strato classic prime 200, approx. 120-150 ml/m², about 2-3 h drying time
 - 1st Coating of **UV PU Sealer**, approx. 100 ml/m², allow to dry until the water has completely evaporated, UV-irradiation at 20 m/min, interim sanding with 120 gritscreen
 - 2nd Coating of **UV PU Sealer**, approx. 100 ml/m², allow to dry until the water has completely evaporated, UV-irradiation at 15 m/min.

It is very important to pay attention to the complete evaporation of water, especially in areas of joints, pores and protruding wood fibres before UV-irradiation. We recommend sustained support of evaporation by using a ventilator (**Dr. Schutz TG1**).
- Floor and material temperature must not fall below +15°C during application and drying time.
- The technical rules are to be observed.
- Approved and recommended irradiation equipment: Decorad.

4 CONSUMPTION

Per coating approx. 100 ml/m² (10 m²/l). On PVC, primed Linoleum one coat. On primed wood, cork or decorative screed floors two coats of UV PU Sealer recommended.

5 DRYING TIME

Can be irradiated after 1-3 hours, depending on the thickness of the coating (20 °C, 50% relative air humidity and sufficient ventilation). The complete evaporation of the water must be established for certain before irradiation follows. After UV irradiation the floor can immediately be used, or worked on again. The chemical resilience for longer term effects can be ascertained in the course of days.

Low temperatures, high humidity and poor ventilation can prolong the drying time.

In order to ensure complete physical dryness before UV irradiation, we recommend using a room blow dryer, e.g.



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turbo-fan **Dr. Schutz TG1**.

6 CLEANING & CARE

After the area has hardened completely, use **Dr. Schutz PU Cleaner** for cleaning.

In areas with high traffic, signs of wear, such as scratches or discoloration, may occur. This can mean that a renovation of parts or of the entire sealer surface is necessary, requiring the application of a new coat of **Dr. Schutz UV PU Sealer / UV Waxnomor** or **Dr. Schutz PU Sealer / Waxnomor**. We recommend that renovation of the sealer film is carried out on taped-off part areas.

In case conventional care is requested, we recommend **Dr. Schutz Floor Mat** (for satin and mat) or **Dr. Schutz Floor Shine** (for semi gloss and gloss).

Please pay attention to our care instructions specific to floorings and buildings under www.dr-schutz.com.

7 STORAGE

Protect against light and frost. Store in a cool, dry place. Will keep for 12 months in unopened, original canister from the date of manufacture. Keep coating materials out of the reach of children.

When stored in varying temperatures and/or in an opened canister, dried parts can form. If so, sieve these out before using.

8 TECHNICAL DATA

Contained substances: water, acrylic acid modified polyurethane, silicic acids, waxes, additives. Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

voc (g/l) <1 (base lacquer, ISO11890) / Decopaint 2004/42/IIA(j)(140)140.

ADR/RID: not a dangerous good as defined by transport regulations.

CLP (base lacquer): GHS07, Warning. Contains pentaerythritol tetraacrylate. H332 Harmful if inhaled. H317 May cause an allergic skin reaction. P260 Do not breathe spray. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P302+P352 IF ON SKIN: Wash with plenty of water. P362+P364 Take off contaminated clothing and wash it before reuse. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

CLP (Crosslinker G/M): GHS07 Warning. Contains Hydrophilic aliphatic polyisocyanate. H332 Harmful if inhaled. H317 May cause an allergic skin reaction. H335 May cause respiratory irritation. H412 Harmful to aquatic life with long lasting effects. P280 Wear protective gloves / eye protection. P362 Take off contaminated clothing. P405 Store locked up.

9 SPECIAL NOTES

- When mixed together, 2part-products can develop carbon dioxide and build up pressure. Never close 2part-mixtures tightly in a container, danger of bursting!
- Please pay attention to the printed batch number. Only use products with the same batch number in one



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layer. In the case of a different batch, mix this in a separate container before using.

- All details given under laboratory conditions 23°C / 50% relative humidity / air-change 3 times per hour. Conditions at building sites can differ and account for varying results.
- Clean the working tools and implements with water. The hardened remains of lacquer can only be removed mechanically. We recommend always using new, dry Aquatop Rollers.
- Any initial yellowing discoloration of the lacquer as a consequence of irradiation disappears within days.
- During irradiation smells may result, which disappear within days. In the early stages ventilate well.
- Whitish discolorations in the lacquer show that the proportion of water in the lacquer had not fully evaporated before irradiation. This can only be remedied by sanding.
- Any possible discoloration of a light sensitive flooring must be tested beforehand.
- During irradiation tension develops in the lacquer. The flooring must therefore be tightly bound to the substrate (no loose lay, no simple fixatives like spray adhesives). In case of doubt, we recommend checking the adherence of taped-off sections. Please note: be careful not to allow penetrating strip-cleaner solution to damage the adhesive bed.
- Tension development is possible if the complete system after uv takes up or gets rid off water. For damages due to subsequent drying within a longer time after installation the installer is responsible.
- Whether older linoleum floors with soft parts are suitable for UV sealing is a question which must be addressed critically. In case of doubt, a conventional sealing should preferably be chosen.
- Limited recommended on floors with high punctual elasticity (e.g. rubber, self levelling pu resin). Cracking possible.
- UV lamps develop not only UV rays, but also heat. If the heating effect is too strong, it can lead to damage or deformation of the substrate. Please pay attention to the stipulations of the machine's manufacturer.
- Should the 2-component application not be possible, for any reason or stipulation, the product can also be used as a 1-component finish. However, we must point out that many sustainable ad-vantages of the 2-component application would thus be lost. In such a case particular attention should be paid to ensuring that irradiation covers 100% of the surface and the machine should be set to travel at a mere 8 m/min.
- When using UV-technology the aspect of "hardening depth" must be taken into account. The stipulated amount of wet lacquer applied in 1 coat should not be exceeded. When coating with several layers, each individual coat must be UV hardened.
- Coloured products (e.g. hair dyes, coloured disinfectants for wounds) as well as plasticizer migration (e.g. from rubber, tires) can lead to the irreversible discoloration of the sealing coat.
- If resistance to hand and instrument disinfectants is required in specific buildings, we recommend pre-testing the respective chemicals on site.
- When working with UV irradiation systems it is important to observe the stipulations of the machine manufacturer, especially with regard to health and safety at the workplace.
- In case of questions, please consult our advice on technical applications.

10 CROSS-REFERENCE

Our following publications in their updated form are valid as an integral part of this fact sheet:

- General notes on the application of Dr. Schutz finishes



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- Safety data sheet available on request.

The quoted printed matter, as well as this product information in its updated form, is available on our homepage www.dr-schutz.com or on request from the address quoted below.

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The above advice for technical application is given to the best of our knowledge and according to the latest state of technology. Therefore, if our products are used carefully heeding the advice given on their application, as well as following our suggested procedures with the materials intended for use with these products, no damage shall occur. However, our products are used outside and beyond our possible control, and are therefore subject to your own responsibility, which does not release you from the obligation to check for yourself whether our supplied products are suitable for your intended purpose and procedure. Therefore our notes and advice are not legally binding and cannot be used against us as grounds for liability - which includes the rights and protection of any third party. The relevant recommendations, guidelines and standard norms are to be observed, as well as the recognized technical rules. On publication, this product information replaces and supersedes the validity of any previous versions.