

# VERDUREN™

## 1 PRODUCT DESCRIPTION

Water-based 2 part polyurethane polymer with especially high cross-linking density and therefore high resistance to colored dyes, plasticizers and chemicals. Only for professional use. Reduces dirt adhesion and the time needed for day-to-day maintenance. Hard-wearing wear layer, excellent elasticity.

Easy and safe to apply with excellent adhesion. High solids content.  
 Anti slip classification R9 according to BGR181  
 Very low emission (EMICODE: EC2 R).  
 Gloss grade: semi-gloss, satin, mat

## 2 AREAS OF APPLICATION

Buildings in which a higher level of chemicals is used, e.g. hairdresser's salons and medical areas. If in a specific building the highest possible hard-wearing wear layer is the priority, rather than higher resistance to chemicals, then it is preferable to use Verduren

- Floor coverings made of PVC and LVT with smooth, or slightly structured, grained surfaces.
- Linoleum floors, for open-pored linoleum after priming with **Verduren Primer**.
- Coating of decorative screed floors, which have been tested and approved by us, after priming with **Verduren for Cement Floors**.
- Non-absorbent stone and tile sub-surfaces after priming with **Verduren Superbond**.
- Rubber floors (\*).
- Epoxy and PU floors.

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

Please pay attention to our technical recommendations specifically for floors and buildings under [verduren.com](http://verduren.com)

## 3 APPLICATION

Shake the all components vigorously before mixing. Add **Crosslinker M** to the baser in a ratio of 5:1 and immediately shake thoroughly. Allow the mixture to settle for 10 minutes, then gently shake/swirl again and use it. Do not mix more than can be used up within 2 hours. Apply Verduren evenly at min. 60 °F max 78 °F onto the thoroughly prepared subsurface with the included Verduren Aquatop Roller. Product can be applied at rate of 1/2 per 100ft<sup>2</sup> @ 2 coats or at rate of 1 liter per 100 ft<sup>2</sup> @ 1 coat

Please note:

- The surface must be professionally prepared and in a clean, dry condition free of oil, wax and dust (\*\*).
- Wood, open-pored linoleum and decorative screed floors must be primed before applying **Verduren**.
- Floor and material temperature must not fall below 52°F during application and drying time.
- The technical rules are to be observed.

## 4 CONSUMPTION

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coating approx. 1/2 liter/100 ft<sup>2</sup> (2 coats), or 1 liter/100ft<sup>2</sup> (1 coat. On wood, cork or decorative screed floors consumption may be increased up to 20%.

In the case of a very absorbent sub-surface, higher consumption is possible and it is recommended to have at least 30% additional material available.

## 5 DRYING TIME

When applying second coat surface can be carefully walked on and worked on after approx. 5 hours, however second coat must be applied prior to 24 hours after the first coat. In the case of a longer interim drying time, the entire surface must first be abraded with a **Verduren Renovation Pad**.

For single coat application floor can be walked on carefully 5 hours after the last coat. Minimum 12 hours for soft traffic and after 24 hours approx. 80% of the durability has been achieved and can be returned to normal traffic. After 7 days the full durability and chemical resistance of the product is achieved (based on 72°F, 50% relative humidity and sufficient ventilation)

Low temperatures, high humidity and poor ventilation can prolong the drying time. Refrain from laying down carpets in the first 10-14 days. Furniture can be carefully placed. The area must not be wet mopped in the first three days.

## 6 CLEANING & CARE

After the area has hardened completely, use **Verduren 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 wear layer surface is necessary, requiring a new coat of **Verduren**. We recommend that renovation of the wear layer is carried out on taped-off part areas.

Please pay attention to our care instructions specific to floorings and buildings under [verduren.com](http://verduren.com).

## 7 STORAGE

Protect against 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, polyacrylate, polyurethane, glycoether, silicic acids, waxes, additives. Contains 5-Chlor-2-methyl-2H-isothiazol-3-on and 2-Methyl-2H-isothiazol-3-on.. May produce an allergic reaction. voc (g/l) 49 in mixture (ISO11890) / GISCODE: W2DD+ / 2004/42/IIA(j)(140)140.

ADR/RID: not a dangerous good as defined by transport regulations (base lacquer and crosslinker).

CLP (base lacquer): labelling not necessary.

Emptied canisters can be disposed of in household waste, or taken to a recycling centre.

CLP (Crosslinker M): GHS 07, Attention. H332 Harmful if inhaled. H317 May cause an allergic skin reaction. H335

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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. EUH204 Contains isocyanates. May produce an allergic reaction.

Gloss grade at 60°: matte = 10-15, satin = 18-22, Semi gloss 30-50

The gloss grade can vary from lab values depending on the conditions in actual buildings.

## 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!
- 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.
- Please pay attention to the printed batch number. Only use products with the same batch number in one layer. In the case of a different batch, mix this in a separate container before using.
- Coloured products (e.g. hair dyes, coloured disinfectants for wounds) as well as plasticizer migration (e.g. from rubber) 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. (\*)
- Please pay attention: remove coloured products (hair dyes, wound disinfectants, etc.) as fast as possible from the sealer film. The longer aggressively colouring chemicals soak in, the sooner they can migrate and leave stains, which can sometimes no longer be completely removed, depending on the type of stain and the soak-in time. Therefore treat stains immediately with **Verduren Elatex / USR** and proceed as follows: dab away fluid remnants of colour with absorbing cloths. Spray the stain with **Verduren Elatex / USR**, let it soak in for 5 minutes. Dissolve the stain with a soft cloth, dabbing from the edge into the centre of the stain. Do not rub. Rinse with clear water afterwards.
- (\*) In case of questions, please consult our advice on technical applications
- (\*\*) Please pay attention to our Technical Information „Preparation of subsurfaces“

## 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 Verduren finishes
- 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.verduren.com](http://www.verduren.com) or on request from the address quoted below.



Verduren

1098 Chestnut Bend

West Plains, MO 65775

**TELEPHONE NUMBER FOR EMERGENCY**

Local emergency contact: 877-948-0063

Hours: 9 a.m. to 5 p.m.

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.