



ESD Topcoat

1 PRODUCT DESCRIPTION

Special conductive waterbased 2 part polyurethane sealer for the long-term protection of conductive PVC and epoxy resin floorings.

- Fulfills the requirements of EN 61340-5-1, ANSI/ESD S20.20 (IEC 61340-4-1,4-5, ANSI S7.1, ESD STM97.1), TRBS 2153 if used as a top coat for Dr. Schutz ESD Basecoat or Dr. Schutz ESD ColorBase.
- Reduces dirt adhesion and the time needed for day-to-day maintenance.
- Hardwearing sealer film, excellent elasticity and good resistance against colorless chemicals.
- Only for professional users.
- Easy and safe to apply with excellent adhesion.
- High solids content.
- No intrinsic yellowing.

Certified in multiple layer build up together with ESD Colorbase and ESD Basecoat by GOD-MIN Mernoki Kft.- GOD-MIN Laboratory, Hungary.

Tested in single layer application onto conductive substrate by EPH Dresden, Germany.

2 SUITABLE FOR

Conductive PVC and Epoxy Resin floorings with a plain structured surface after priming with **Dr. Schutz ESD Basecoat** or **Dr. Schutz ESD Colorbase**.

For single layer application without priming if good conductivity of flooring is given (*).

3 APPLICATION

Stir up **Dr. Schutz ESD Topcoat** while mixing in **Decelerator Add** thoroughly before adding the Crosslinker. Add **Crosslinker 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. Do not mix more than can be used up within 2 hours (at 20 °C). Apply **ESD Topcoat** evenly in one layer (at min. 15 °C) onto the previously professionally prepared subsurface (Please pay attention to our Technical Information „Preparation of subsurfaces“) with the **Dr. Schutz Aquatop Roller**.

Please note:

- The surface must be professionally prepared and abraded as well as in a clean and dry condition, free of oil, wax and dust.
- Stir up well base lacquer. We recommend to use an electric stirrer. Avoid stirring in air. The settled component is responsible for conductivity and decanting is not allowed.
- Slightly visible roller marks can be caused by detrimental environmental conditions like humidity, temperature and floor color but this does not affect the conductivity properties of the system.
- Floor and material temperature must not fall below +15°C during application and drying time.
- The technical rules are to be observed.
- The conductivity of the floor can be ascertained after 24 hours and does not change significantly during the further hardening process.



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Tips to reduce optical annoyance:

- Exclude conditions which might lead to accelerated lacquer drying (heaters, aeration, air conditioning, ...). Wipe wet prior to lacquering to enhance humidity.
- Work with attached **Decelerator Add.** It prolongs the open time of lacquer for ease of application.
- Start working with proper wetting of the roller in the lacquer tray.
- For faster working roll with large roller the edges if possible. Preroll edges only as necessary for the current area.
- Use joints to reduce area to be currently rolled by taping off. Avoid roller overlap markings wherever possible.

4 COVERAGE

Per coating approx. 50 ml/m² (20 m²/l).

5 CURING

Can be walked on carefully 12 hours after the last sealing coat. After 24 hours approx. 80% of the durability has been achieved. After 7 days the full durability and chemical resistance of the product is provided.

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 MAINTENANCE

After the area has hardened completely, use **Dr. Schutz ESD Floor Cleaner** for cleaning. Conventional care with acrylic emulsion systems is not recommended due to reduction of conductivity.

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 ESD Basecoat** or **Dr. Schutz ESD Color Base**. We recommend that renovation of the sealer film is carried out on taped-off part areas.

If a layer of ESD Topcoat is already given on conductive flooring: Remove ESD Topcoat by sanding off down to flooring. We recommend to use a multiple disc machine with grit 100, followed by grit 150.

If ESD Topcoat is given onto ESD Basecoat or ESD Colorbase: Strip clean well. Abrade the surface with single disc or multiple disc machine grit 120 and apply first again ESD Basecoat or ESD Colorbase followed by finishing with ESD Topcoat.

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.



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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, glycolether, silicic acids, waxes, additives. Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

voc (g/l) 71 in mixture (ISO11890) / GISCODE: W3DD+ / 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. H315 Causes skin irritation. 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. EUH204 Contains isocyanates. May produce an allergic reaction.

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!
- We recommend to ascertain the conductivity installation of a sample area.
- Not recommended for repeated application. In case of repeated application we recommend removing the layer by sanding down to flooring or to apply an intermediate coating of ESD Basecoat resp. ESD Colorbase.
- 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.
- 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.
- Due to its intrinsic slight transparent greyish shade we recommend installation of a sample area.
- 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.
- 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. (*)
- (*) 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
- Safety data sheet available on request.

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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.