



ESD Medicoat

1 PRODUCT DESCRIPTION

Special conductive waterbased 2 part polyurethane sealer with especially high crosslinking density and high resistance against dyeing chemicals. 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 in single layer application on floorings which provide good conductivity. Hardwearing sealer film. Only for professional users.

Easy and safe to apply with excellent adhesion. High solids content. No intrinsic yellowing.

2 SUITABLE FOR

Conductive PVC and Epoxy Resin floorings with a plain structured surface and good conductivity. Due to high chemical resistance especially recommended in medical areas with frequent disinfectant wear.

In case of unproved floorings we recommend to install a sample area to get sure about sufficient conductivity. If conductivity of flooring is insufficient we recommend installing an intermediate layer of ESD Basecoat or ESD Colorbase.

3 APPLICATION

Stir up **Dr. Schutz ESD Medicoat** thoroughly before adding the Crosslinker. Mix in the appended **Decelerator Add** and add **Crosslinker A** to the base lacquer in a ratio of 5:1 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 1 hours (at 20 °C). Apply **ESD Medicoat** 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** in one layer with 50 ml/m².

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 base component well. We recommend using an electrical stirrer. The settled down component is essential for the conductivity and decanting must be avoided.
- Visible roller marks are possible depending by detrimental environmental conditions like humidity, temperature and floor color but this does not affect the conductivity properties of the system.
- Application of two layers can reduce conductivity distinctly. Intermediate layer of **ESD Basecoat** or **ESD Colorbase** recommended.
- Floor and material temperature must not fall below +15°C during application and drying time.
- The technical rules are to be observed.

4 COVERAGE

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



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5 CURING

Go for fast evaporation of the water after application.

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 (based on conditions of 20 °C, 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 MAINTENANCE

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

In areas with high traffic, signs of wear, such as scratches or discoloration, may occur. This can mean that regarded as a care procedure the application of a new coat of **Dr. Schutz ESD Basecoat** or **Dr. Schutz ESD Color Base** followed by **Dr. Schutz ESD Medicoat** is recommended. We recommend that renovation of the sealer film is carried out on taped-off part areas.

Conventional care is with acrylic emulsion systems is not recommended due to reduction of conductivity.

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, glycolether, silicic acids, waxes, additives.

voc (g/l) 71 in mixture (ISO11890) / GISCODE: W3DD+ / Decopaint 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 A): GHS 07, Warning. Contains aliphatic polyisocyanate, Hexamethylendiisocyanat-Oligomere, HDI <0,3%, 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate, oligomers, cyclohexyldimethylamine. H332 Harmful if inhaled. H315 Causes skin irritation. H319 Causes serious eye 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. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. EUH204 Contains isocyanates. May produce an allergic reaction.



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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 layer. In the case of a different batch, mix this in a separate container before using.
- 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. (*)
- Prolonged evaporation of water due to high humidity and/or bad aeration might lead to whitish discolorations. To fix such the layer has to be sanded down and reapplied.
- Not recommended on soft floorings (PU cast floorings, rubber). In case of punctual load cracks may form.
- (*) 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.

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.

Dr. Schutz – We Care About Floors

Headquarter
Dr. Schutz GmbH
Holbeinstraße 17
D-53175 Bonn
Tel.: +49 (0)228 / 95 35 2-40
Fax: +49 (0)228 / 95 35 2-46
E-Mail: export@dr-schutz.com
www.dr-schutz.com

UK
Dr. Schutz U.K Ltd.
Unit 24, Anglo Business Park,
Smeaton Close, Aylesbury Bucks
HP19 8UP

Contact: Richard Nelson
Tel.: +44 (0)1296 437827
Fax: +44 (0)1296 334219
E-Mail: richard@dr-schutz.com

Ireland
Dr. Schutz Ireland
35 Pic Du Jer Park,
Ballinlough, Cork

Contact: Paul O'Reardon
Mobile: 0877678388
E-Mail: drschutzireland@gmail.com

North America
Schutz NA
4701 Bath St 46
Philadelphia PA 19137
USA

Contact: Sam Jamison
Tel.: +1 (877) 272-4889
Mobile: +1 (215) 510-7874
E-Mail: sam@schutzNA.com

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.