

■ dichtol ESD #2643

Product description

DIAMANT dichtol ESD is a ready-to-use 1-component impregnation system based on a special polymer formulation filled with additives that impregnate the component and make it conductive. Due to the impregnation and the conductivity of electro-static charges, dichtol ESD extends the application purposes of the printed component. Media impermeability and ESD safety are achieved in a single operation and the treated components can be used in ESD-sensitive areas and are of course gas and water-tight.

With its versatile application options (brushing, rolling, spraying), dichtol ESD ensures deep penetration into the microstructure of the leaking component. It permanently seals micropores and hairline cracks, makes the component impermeable to media and increases chemical and mechanical resistance where necessary. The surface becomes greyish anthracite.



Characteristics

- Electrostatic dissipative (ESD-Safe)
- Efficient material consumption
- Versatile application options through: brushing, rolling, spraying
- Temporary corrosion protection (transport protection)
- Colour anthracite, greyish
- Deeply effective - penetrates deep into the material structure

Typical applications

- Parts carriers
- Electronic housings/electronic covers
- ESD-safe tools and handling aids
- Holders/guides/clips/spacers/grippers
- ESD-safe component and tool boxes/storage containers

Available in the following versions

ARTICLE	PRODUCT	DESCRIPTION
#2643	dichtol ESD	0,25L, 1L, 5L, 10L, special sizes on request
#2644	dichtol ESB Blue	0,25L, 1L, 5L, 10L, special sizes on request

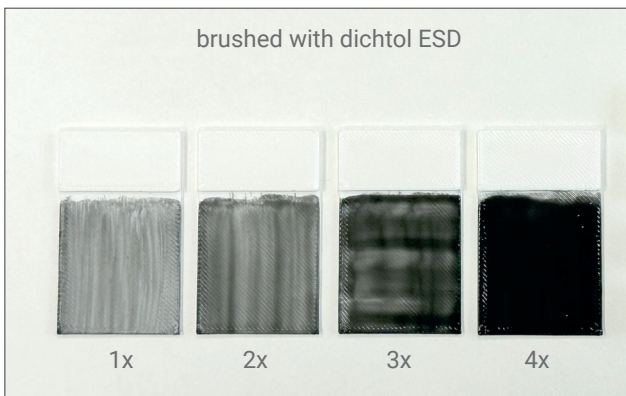
Product data condition of delivery

PROPERTIES	VALUE
Colour	Grey
Density	0,9 g/cm ³

PROPERTIES	VALUE
Viscosity	110 mPas
Curing time at 20°C, surface dry	10 min
Curing time at 20°C, fully cured	2 h
Recommended curing time until insertion	24 h
Application temperature	Up to 40 °C surface temperature
Surface resistance	2,1 MΩ

Product data fully cured product

PROPERTIES	VALUE
Colour	Grey for single-layer application, black for multi-layer application, see illustration below



Storage / shelf life

Store in the original, unopened container in a dry, cool and frost-free place (+5°C to +30°C).
Shelf life 1 year. Close the opened container as airtight as possible after use.

Processing

1. Preparation

The component to be sealed must be completely free of dirt, foreign bodies (e.g. residual powder), grease and other adhesions. We recommend the use of DIAMANT Cleaner #1417 for this purpose, provided the printing material has sufficient chemical resistance.

2. Application

The product is a 1-component system. Please consider the processing temperatures specified in the technical data.

Application on surfaces that are too warm can have a negative effect on the penetration behaviour of the sealer, as can application at temperatures that are too low.

The application options are briefly explained below. The choice of a suitable application method depends on the size and accessibility of the component surfaces to be sealed.

Brushing on/rolling

This method is particularly suitable for components that are not to be sealed in all areas and for larger surfaces. Apply the sealer to the surface to be sealed using a suitable brush. Ensure that the sealer is left to work for at least 5 minutes. During this time, the surface must be kept constantly moist, so apply several coats if necessary.

Spraying

This method is particularly suitable for components with very large surfaces that need to be evenly sealed. Use the ready-to-use spray bottle or a suitable paint spray gun and spray the sealer onto the surface to be sealed. To ensure a sufficient contact time of at least 5 minutes, keep the surface moist by spraying several times.

3. Curing

The sealer physically hardens in a few hours. The sealer is dry on the surface after just a few minutes so that the components can be moved again quickly. Curing at an elevated temperature in an oven is not necessary, but can significantly shorten the curing time.

Disposal

Do not empty into drains or water courses. Waste and containers must be disposed of in a safe manner. Disposal according to Directive 2008/98/EC on waste and hazardous waste. Proposal list of waste keys/waste names according to ECAC 080 111* Waste colours and varnishes containing organic solvents or other hazardous substances *Hazardous waste according to Directive 2008/98/EC (Waste Framework Directive). Non-contaminated and empty packaging can be recycled. Containers that are not emptied properly are hazardous waste.

Safety Data Sheet

Please read the relevant safety data sheet before processing the product. Safety data sheets are available on a daily basis on request via info@diamant-polymer.de or by telephone on +49-2166-98360.

DIAMANT guarantees the product properties as long as they are stored and used in accordance with the specifications listed here. DIAMANT accepts no responsibility for the processing of the material. Our technicians will be happy to answer any further questions you may have.

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The technical data listed here was determined under laboratory conditions and verified by quality assurance processes on the day of product manufacture. We reserve the right to make changes without prior notice. The customer is responsible for verifying the up-to-dateness of the data and should contact DIAMANT before ordering the material. Application, use and processing are beyond our control and are therefore the sole responsibility of the purchaser. Should liability nevertheless arise, this is limited to the value of the goods supplied by us and used by you. We guarantee the flawless quality of our products in accordance with our general terms and conditions of sale and delivery. All technical data vary depending on the loads and conditions of use. We will provide specific application data on request in each individual case.