

ESD-conductive layer

Characteristics

HADALAN® ESD-LS 12E is a conductive, water-dispersed, solvent-free, ready-to-use 2-component conductive layer made of high-quality epoxy resin. **HADALAN® ESD-LS 12E** serves as a conductive layer for the coating system with the conductive top coat **HADALAN® ESD-LDS 12E**.

- Totally solid according to test procedures of Deutsche Bauchemie e.V.

Use

HADALAN® ESD-LS 12E serves as a conductive layer for the coating system with the conductive top coat **HADALAN® ESD-LDS 12E**. **HADALAN® ESD-LS 12E** is used as a conductive layer for industrial floors with high requirements for the dissipation of electrostatic charges.

Specifications

Packaging	Tin bucket
Container	18 kg
Component A	5.5 kg
Component B	12.5 kg
Mixing ratio	1 : 2.27 PBW
Application temperature (air, substrate, product)	+15 °C to +25 °C
Processing time ¹⁾	Approx. 20 minutes
Mixed density	Approx. 1.06 kg/l
Adhesive tensile strength ¹⁾	> 1.5 N/mm ²
Earth leakage resistance	from 2 x 10 ⁴ Ohm
Walkable ¹⁾	After approx. 8 hours
Subsequent coat	Within 8 - 24 hours
Storage	Cool, frost-free and dry, 6 months

Quantity required

Primer	0.10 to 0.12 kg/m ²
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¹⁾ At +20 °C and 60% relative air humidity.

Preparation of the surface

HADALAN® ESD-LS 12E is applied to a very even, unsanded, pore-closed surface consisting of **HADALAN® ESD-G 12E**. The conductive layer should be installed at the latest 24 h after the previous layer. Later installation is only possible after thoroughly sanding the substrate. The substrate must be clean and free of the release agent. Always check whether the substrate is open-pored, porous or similar, as in these cases bubbles or pores can form in the conductive layer. This must be checked by the craftsman and subsequently processed. First glue copper strips onto the prepared substrate, which must be connected to the potential equalisation by an electrician. The strips will be covered with a gauze strip. Make sure that no substances containing silicone or other reaction-impeding substances come into contact with the conductive layer before and during the curing phase.

Application

The product is supplied in matched quantities in 2-component containers. Before processing, the material must always be heated to at least the ambient temperature (room and floor temperature). The relative air humidity must be < 80% during application and curing. The A-component must be completely emptied into the previously thoroughly stirred B-component and stirred with a mechanical stirrer for approx. 2-3 minutes. Avoid stirring in air. The mixture must be repotted and briefly stirred again. Pour **HADALAN® ESD-LS 12E** on to the surface to be coated and apply very thinly and evenly with a short pile EP roller (microfibre mixing roller Premium 1043473). To achieve even, good conductivity and perfect curing, make sure that the conductive layer is homogeneously distributed. Under no circumstances should sand or levelling agent be added to the mixture. The conductive layer must not be strewn with quartz sand.

Rework

The subsequent coat must be applied within 24 hours at +20°C, whereby the conductive layer must not be sanded.

System products

HADALAN® ESD-G 12E
HADALAN® ESD-LDS 12E

Important notes

The substrate must be protected from rear and pressing moisture. The characteristic data are approximate values that we have determined and are not intended to guarantee any specific properties. Liability claims can therefore not be derived from the product data sheet. EP resins are generally not colour-stable in the long term under UV and weathering influences and/or tend to yellow. The technical data sheet does not exempt the user from carrying out their own tests with regard to applicability and suitability.

Abrasive loads can lead to scratching of the surface. All information can vary or deviate depending on the object, installation and substrate conditions as well as the temperature. Chemical reactions are delayed at low temperatures. This prolongs the time needed for reworking and walking on the surface. The higher viscosity of the products also increases material consumption. The chemical reactions shorten at higher temperatures. Always protect the material from water exposure during processing. Furthermore, the material must be protected against direct water exposure for approx. 24 hours (at +20°C) after application. During this time, the exposure to water (e.g. dew, condensation water) can lead to a white discolouration (carbamate formation) on the surface or the surface becomes sticky at these points. This circumstance can impair the adhesion to the subsequent coatings. Excessive air humidity can impair the curing process. The substrate temperature must be at least +3 °C above the dew point temperature. Traces of processing may remain visible on manually applied coating systems. This applies in particular to glancing light or larger contiguous areas; if necessary, produce a trial surface.

Safety provisions/recommendations

Information regarding the safety during transport, storage and handling are included in the updated safety data sheets.

Disposal

The local waste removal regulations must be observed.

Manufacturer

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This information is based on extensive tests and practical experience. However, it cannot be applied to every type of application. If in doubt, we recommend that you test the product before using it. Due to continuous product improvement, this information is subject to change without notice. Our General Terms and Conditions apply. Version as of 10.2021