

# ERADUR® ESD MASSIV SL

Anti-static, easy to clean and very durable coating



Eradur® ESD Massiv SL is the anti-static version of Eradur® Massiv SL with otherwise equal properties.

The coating prevents and dissipates static electricity.

Eradur® ESD Massiv SL is made of solvent-free epoxy and is self-leveling, which means that it fills up minor irregularities in the substrate.

There is little to none fiber/yarn particles making it a more homogeneous mass compared to normal ESD. Suitable for thin coatings.

The coating's anti-static properties are adapted to different industries, norms, and standards. When ordering, the norm or type of industry should be stated.

Eradur AB checks that the finished floor meets the current anti-static requirements. The coating requires no maintenance to maintain the anti-static properties.

ESD approved according to IEC 61340-5-1

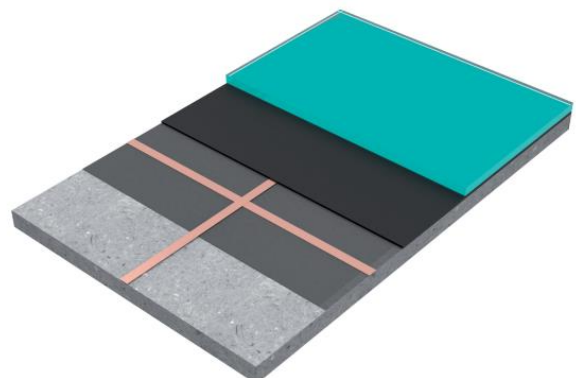
For surfaces with requirements for slip resistance, Eradur® ESD Structure is recommended.

For surfaces with aggressive solvent loads, Eradur® ESD Resistant LM is recommended. See separate system sheets.

ESD approved according to IEC 61340-5-1

Eradur® ESD Massiv SL is adapted for use in:

- Electronics industry
- Chemical industry
- Hygiene and cleanroom environments
- Production halls
- Warehouse
- Server rooms
- Electronics room



# PROPERTIES ESD MASSIV SL

|                            |                                                                                                                                  |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>Adhesion</b>            | Very good adhesion to clean concrete as well other substrates.                                                                   |
| <b>Compr. Strength</b>     | Strengthens the concrete substrate and transfers loads.                                                                          |
| <b>Abr. resistance</b>     | Very good resistance against in tense rolling and abrasive traffic.                                                              |
| <b>Permeability</b>        | The seamless coating is free from pores and impervious to liquids.                                                               |
| <b>Chemical resistance</b> | Resistant against common industrial chemicals, alkali, diluted acids and mineral oils. See separate table of chemical resistance |

## Substrate and conditions

The concrete must be fully cured, RH max 93% and laitance removed by diamond grinding or blasting. The concrete surface should have a tensile strength exceeding 1.5 MPa and should be dry, dust-free and well cleaned. Asphalt and bitumen should be grinded or milled off. During application the surface temperature of the floor should exceed 12°C (54°F) and the relative humidity (RH) of the air 80%.

Small cavities and cracks in the substrate must be repaired with epoxy products, cement mortars are not used in thin layers.

The Eradur products in the coating system are two pack products and must be mixed thoroughly before application. The mixing proportions are important and therefore batch-packed material should not be parted. Pot-life is 30–60 minutes dependent on product and temperature. Base, hardener and filler material should be room temperature before use.

High relative humidity, or if the temperature drops below the dew-point during the first 24 hours after application, may rise to surface disturbances like a matt haze. This is only a surface effect and will not affect durability or chemical resistance.

## Coating Thickness

The coating is usually carried out in 2mm layer thickness. If higher layer thickness is required due to high point loads, the layer thickness is increased with epoxy scraping.

## Slipresistance

Slipresistance can be performed as Eradur ESD Structure.

## Construction Eradur® ESD Massiv SL 2mm

**Primer:** Eradur® Primer N, alt. Eradur® Plus Primer: 0,4 kg/m<sup>2</sup>.

**Ground connection:** Copper tape: 0,1m/m<sup>2</sup>

**Anti-Static layer:** Eradur® ESD Primer I: 0,12 kg/m<sup>2</sup>.

**Self-leveling mass:** Eradur® ESD Massiv SL: 2,2 kg/m<sup>2</sup>. + 0,5 kg/m<sup>2</sup> Epoxy filler

## Curing time

The curing time depends on the temperature. Normally, the floor can be loaded 24 hours after the last operation. Full cure is achieved after 5-10 days.

|                                 | 12°C    | 20°C   | 30°C   |
|---------------------------------|---------|--------|--------|
| <b>Light loads</b>              | 38 h    | 24 h   | 12 h   |
| <b>Heavy loads</b>              | 72 h    | 36 h   | 24 h   |
| <b>Full chemical resistance</b> | 10 days | 7 days | 5 days |

## Swedish standard

Eradur® ESD Massiv SL has been tested according to CE EN 13813  
ESD approved according to IEC 61340-5-1

## System properties

|                              |                                |
|------------------------------|--------------------------------|
| <b>Appearance:</b>           | Blank, Slip resistance surface |
| <b>Compressive strength:</b> | >80 MPa                        |
| <b>Tensile strength:</b>     | >23 MPa                        |
| <b>Flexural strength:</b>    | >25 MPa                        |
| <b>Hardness (Shore D)</b>    | ca 80                          |

## Color

See color chart on our standard colors. Can also be performed in most RAL and NCS colors.

## Environment

A long working-life (10-25 years) and good function with tailor-made properties means that the coating is a long-term good environmental choice, with low costs of maintenance. See environmental declaration.

Seamless floors give dense surfaces and give rise to great hygienic and environmental advantages. The floor surface is easy to clean and the demand for chemicals for daily cleaning and maintenance, is reduced.

## Hygiene at worksite

ERADUR epoxy products are twopack formulations of thermosetting plastic, which mean that only trained personnel are allowed to handle the products. Areas, where work with isocyanath/epoxy is being performed, must be separated with signs and have a good ventilation. Other activities may not take place within the defined work area. Persons, having isocyanath-asthma or are allergic are not to be within the work-area. The cured coating is of no hazard from a health or environmental point of view. See environmental declaration.

Adherence to local regulations for work with reactive plastics is necessary, see www.av.se (AFS 2015:43).

## Maintenance

The coating is resistant to common used industrial cleaners and cleaning methods, including high-pressure cleaning.  
See separate cleaning instructions.

After years of wear, reconditioning is possible with new surface top.

Eventually damaged or worn coatings are best repaired by authorized Eradur entrepreneurs.

## Guidance for projecting

Difficult environments often demand special pre-treatment or preparation. Eradur AB offers guidance and technical service for the right choice of coating in order to fulfil demands in different environments.

Experience and knowledge are needed for an adequate result and we work together with authorized Eradur entrepreneurs.

## General information

Contact Eradur AB for questions about the area of use, chemical resistance and application conditions.

## Description text, example

MHG Eradur® ESD Massiv SL, Color: RAL 7035, thickness 2 mm.  
Coved skirting 100 mm, radius 50 mm, mass as the floor coating.  
Sveff's quality documentation must be followed. Supplier Eradur AB. Execution according to the supplier's instructions mass as the floor coating.

SE-15.08.2022