

ERADUR® ESD MASSIV

Smooth, durable, and hygienic coating for heavy wear



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

The coating prevents and dissipates static electricity. See separate brochure.

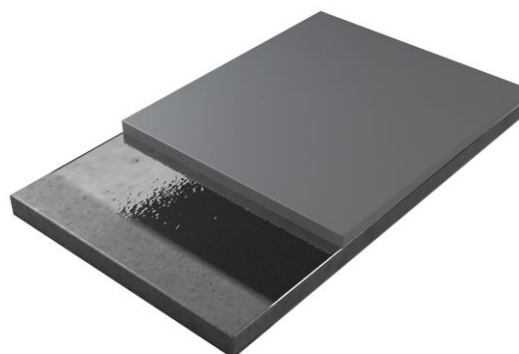
The coating's anti-static properties are adapted to different industries, norms, and standards. When ordering, the norm or type of industry should be stated.

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

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.

Eradur® ESD Massiv is adapted for use in:

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



PROPERTIES ESD MASSIV

Adhesion	Very good adhesion to clean concrete as well other substrates.
Compr. Strength	Strengthens the concrete substrate and transfers loads.
Abr. resistance	Very good resistance against in tense rolling and abrasive traffic.
Permeability	The seamless coating is free from pores and impervious to liquids.
Chemical resistance	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 2-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 2 mm 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 Struktur.

Construction Eradur® ESD Massiv 2 mm

Primer: Eradur® Primer N, alt. Eradur® Plus Primer: 0,4 kg/m².

Scattered sand: Quartz sand 0.3-0.7: 0.6 kg / m².

Ground connection: Copper tape: 0,1m/m²

Anti-Static layer: Eradur® ESD Primer 1: 0,12 kg/m².

Self-leveling mass: Eradur® ESD Massiv: 2,2 kg/m²

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
Light loads	38 h	24 h	12 h
Heavy loads	72 h	36 h	24 h
Full chemical resistance	10 days	7 days	5 days

Swedish standard

Eradur® ESD Massiv has been tested according to CE EN 13813

System properties

Appearance:	Blank, Slip resistance surface
Compressive strength:	> 80 MPa
Tensile strength:	> 23 MPa
Flexural strength:	> 25 MPa
Hardness (Shore D)	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 2-pack 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, 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.
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