

MC-DUR 1850 ESD

Conductive epoxy resin coating

Product Properties

- Two-component, pigmented epoxy resin coating
- ESD (electro-static-discharge) floor coating, conductive
- Increased mechanical and chemical resistance

Areas of Application

- Coatings for electrical and electronics industry
- ESD-areas, with ESD-shoes suitable for earthing of person
- REACh-assessed exposure scenarios: periodical inhalation, application

Application

Substrate Preparation/Mixing

See leaflets "General Application Advice": "Industrial Flooring - Substrate and Substrate Preparation" and "Reactive Resins".

Priming for mineral substrates

MC-DUR 1200 VK, see technical data sheet "MC-DUR 1200 VK".

Scratch Coat

Scratch coat consisting of MC-DUR 1200 VK and oven-dried quartz-sand (0.1 - 0.3 mm). See technical data sheet "MC-DUR 1200 VK".

The scratch coat under MC-DUR GLW must not be strewn, overcoating times must be observed.

Coating, conductive

12 to 24 hours after application of the scratch coat the earthing terminals are to be set. Please refer to the instruction provided together with the "MC-Earthing Kit". Apply conductive earthing strips using MC-Antistatic Spray in a square regular grid of 3 by 3 m. Also spray MC-Antistatic Spray onto all earthing terminals. Best results are achieved using the MC-Antistatic Handheld Dispenser. Then the conductive primer MC-DUR GLW (please refer to technical data sheet "MC-DUR GLW") is applied.

MC-DUR 1850 ESD is applied by pouring the mixed resin onto the floor and spreading it with a serrated rubber trowel (tooth height 8 mm,

supplier POLYPLAN Hamburg, Germany; Order number 59 and 59E08). The fresh coating must be rolled with a spiked roller. The layer thickness is 1.3 mm. To achieve an uniformly coloured surface, connecting areas must be applied within 10 minutes.

Cleaning

To durably maintain the conductive properties the coating must be cleaned regularly. MC-Duroprop B is suitable for basic cleaning. Further cleaning can also be carried out with MC-Duroprop N. Film-forming polish agents or waxes are not suitable.

General Information

Coverage, application times, resistance to foot traffic and time until full resistance are determined by temperature and site properties and condition. See also leaflet "General Application Advice - Reactive Resins".

Concerning the batch colour consistency, please note the general information on the leaflet "General Application Advice - Reactive Resins".

Exposure to chemicals and UV-light may cause colour changes, which usually do not affect the properties and usability of the coating. Mechanically and chemically exposed surfaces are subject to wear and tear. Regular check-ups and continuous maintenance are advised.



Technical Data for MC-DUR 1850 ESD

Characteristic	Unit	Value	Comments
Mixing ratio	p. b. w.	100 : 30	base : hardener
Density	g/cm ³	approx. 1.42	-
Viscosity	mPa·s	approx. 2,000	at 20 °C and 50 % relative humidity
Pot Life	minutes	approx. 30	at 20 °C and 50 % relative humidity
Resistant to foot traffic after...	hours	approx. 16	at 20 °C and 50 % relative humidity
Time until full resistance	days	7	at 20 °C and 50 % relative humidity
Application conditions	°C % K	≥ 10 - ≤ 30 ≤ 85 3	air, material and substrate temperature relative humidity above dew point
Coverage	kg/m ²	1.7 - 2.0	

Product Characteristics for MC-DUR 1850 ESD

Standard colour	MC-grey, approx. 7030, 7032 further colours on request
Delivery	10 kg and 30 kg packs
Cleaning agent	MC-Reinigungsmittel U
Storage	Can be stored in cool (below 20 °C) and dry conditions for at least one year in original unopened packs. Protect from frost!
Disposal	Packs must be emptied completely.
EU-regulation 2004/42 (Decopaint standard)	RL2004/42/EG All/j (550/500 g/l) max 110 g/l VOC

Safety Advice

Please take notice of the safety information and advice given on the packaging labels and safety information sheets and please take notice of the chapter "Safety Measures for Handling Coating Materials and Reactive Resins". GISCODE: RE1

Note: The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are only binding if given in written form. The accepted engineering rules must be observed at all times.

Edition 04/09. Some technical changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.