



# MC-DUR 2095 ESD

## Matt, conductive polyurethane coating

### Product properties

- Two-component, pigmented polyurethane resin sealer
- Colour-stable under UV influence
- ESD-floor coating, electrostatic conductive
- Coating with high durability under low or medium mechanical loads

### Areas of application

- Coating for electronics industry and clean rooms
- ESD-areas (EPA), with ESD-shoes suitable for earthing of persons
- REACh-assessed exposure scenarios: periodical water-contact, long-term inhalation, application

### Application

#### Substrate preparation/Mixing

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

#### Priming

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". To approve optical appearance we recommend to grind the scratch coat with a disc grinder. Grinding dust is to be removed thoroughly by vacuum cleaning.

#### Coating, conductive

12 to 24 hours after application of the scratch coat the connecting points are connected to the potential equalisation (MC-Earthing Kit). The conductive lines are formed in a square raster of approx. 5 m distance by spraying of continuous lines with MC-Antistatic-Spray. We recommend to use the MC-Antistatic Handheld Dispenser for spraying. Then the electrically conductive intermediate layer MC-DUR GLW is applied (see technical data sheet "MC-DUR GLW"). Then the electrically conductive intermediate layer MC-DUR GLW is applied (see technical data sheet "MC-DUR GLW"). MC-DUR 2095 ESD is applied crosswise with a short-hair roller in two work-steps. To achieve an uniform colour of the surface, connecting areas must be applied within 5 minutes after application of the

previous area. In order to achieve a uniform colour coverage the roller coat has to be executed in two work steps.

The wear resistance of MC-DUR 2095 ESD is suitable to withstand regular foot traffic. If the surface is exposed to powered industrial trucks the wear and tear may be increased.

#### Cleaning

To maintain the conductive properties of the floor it is not to be cleaned with cleaners leaving residues or with polish.

A suitable cleaner is "MC-Duroprop N" (see technical data sheet "MC-Duroprop N"). The cleaning intervals depend on intensity of use.

#### 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 2095 ESD

Characteristic	Unit	Value	
Mixing ratio	p. b. w.	10 : 3.5	Base : hardener
Density	g/cm <sup>3</sup>	approx. 1.41	mixture
Solid content	%	55	mixture
Viscosity	mPa·s	approx. 2,000	at 20 °C and 50 % relative humidity
Pot life	minutes	approx. 20	at 20 °C and 50 % relative humidity
Resistant to foot traffic after...	hours	approx. 12	at 20 °C and 50 % relative humidity
Time until full resistance	days	7	at 20 °C and 50 % relative humidity
Application conditions	°C	≥ 10 - ≤ 30	air, material and substrate temperature relative humidity above dew point
	%	≤ 85	
	K	3	
Coverage	g/m <sup>2</sup>	150 - 200	one- or two-layer application, depending on colour

### Product Characteristics for MC-DUR 2095 ESD

Cleaning agent	MC-Reinigungsmittel U
Standard colours	RAL 7032, MC-grey further colours on request
Delivery	4 kg packs
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 (140/140 g/l) max 76 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: PU40

**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 06/09. 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.