Technical Data Sheet
Product number 6838

Epoxy SIC Color ESD

ESD hard grain coating

Colour	Availability	
	Quantity per pallet	
	Size / Quantity	**25 kg**
	Type of container	Tin bucket
	Container code	26
	Art. no.	
special colours from 100 kg	6838	■

Application rate

Approx. 0.6 kg/m² binder

Range of use

- Textured hard grain coating for e.g. ESD protection zones

Property profile

- Slip-resistant
- Dissipative / ESD-compliant
- Volume conductive when used in a system
- Free from solid salts and aqueous salt solutions
- Coating compatibility test
- Resistant to wear
- Can be subjected to mechanical loads
- Can be subjected to chemical loads
- Physiologically harmless once fully cured

Characteristic data of the product

- **On delivery**

	Component A	Component B	Mixture
Density (20 °C)	1.70 g/cm³	1.05 g/cm³	1.56 g/cm³
Viscosity (25 °C)	thixotropic	130 mPa s	thixotropic

- **Once fully cured**

Reaction to fire (DIN EN 13501-1)	B_{fl}-s1* (Low Flammability)
Slip resistance class (DIN EN 51130:2014)	R10
Earth resistance to ground acc. to EN 61340-4-1 (2.5 kg electrode)	< 1 GΩ (23 °C / 50% RH)
Overall system resistance acc. to EN 61340-4-5 (person/shoe/floor)	< 1 GΩ (23 °C / 50% RH)
Maximum body charge acc. to EN 61340-4-5 (walking test)	< 100 V (23 °C / 50% RH)

* Fire test class in defined systems (see test report on fire classification: Remmers conductive systems)

The values stated represent typical characteristic data of the product and are not to be understood as binding product specifications.

Certificates

› **Test report fire classification - Remmers dissipative systems**

Preparation

- **Substrate requirements**

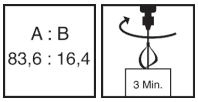
The substrate must be firm, dimensionally stable, capable of bearing loads and free of loose constituents, dust, oil, grease, rubber marks and other substances that could interfere with adhesion.

Suitable Remmers epoxy primers, epoxy scratch coats or epoxy mortars must always be used.

- **Substrate preparation**

Before the application of the product a smooth surface must be produced, e.g. with a scratch coat.
Install earthing elements and copper strands prior to application, based on the size and shape of the surface.
Make sure that no point on the surface is more than 10 m from an earthing point or a connected copper strand.
Refer to the current Technical Data Sheet for detailed information on the single products.

Production of the mixture



- **Combi-container**

Add the entire quantity of the hardener (component B) to the base compound (component A).
Mix thoroughly with a slow-speed electric mixer
(approx. 300 - 400 rpm).
Pour the mixture into a separate container and mix again thoroughly.
Mix for at least 3 minutes.
Insufficient mixing is indicated by streaks forming.

Mixing ratio (A : B)	83.6 : 16.4 parts by weight

Immediately after preparation, pour all of the complete mixture onto the prepared surface, level above the grain using a smoothing trowel, and texture immediately.

Directions

For professional users only!

- **Conditions for use**

Temperature of the material, air and substrate: from min. +15 °C to max. +25 °C.
After application, the material must be protected for at least 72 hours against direct exposure to water and moisture.
Relative humidity should not exceed 80%.
The temperature of the substrate must be at least 3 °C above the dew point temperature during application and curing.

- **Working time (+20 °C)**

Approx. 30 minutes

- **Drying time (+20 °C)**

Foot traffic after 16 hours, mechanical loads after 3 days, full loading capacity after 7 days.

As a general principle, higher temperatures will reduce and lower temperatures will increase the times stated.

Application examples

- **Textured coating**

Use a smoothing trowel, or an angled scraper for upright application, to spread the material evenly over the grain.
Uneven application can lead to visible texture differences.
After applying, intensively re-roll the fresh material with a textured roller at right angles to the direction of application. To reduce roller marks etc., re-roll in one direction without pressure using a 50 cm textured roller, for example.

Application rate	approx. 0.6 kg/m² binder

Notes

Unless otherwise specified, all of the values and application rates given above have been determined under laboratory conditions (20 °C) using standard colours. Slight deviations from these values may arise if the product is worked with on site.
When coating continuous surfaces, only use materials with the same batch number as slight differences in colour, gloss and texture may occur.
Colours with low hiding power (e.g. yellow, red or orange) tend to act as a translucent coating, meaning that a primer of the same colour must be used.
Low levels of air humidity can cause a higher discharge resistance, uneven or thicker layers can even lead the coating to not be conductive at all.
Before checking the ESD values, we recommend cleaning the ESD shoes, the electrodes and the floor coating with isopropyl alcohol or ethanol (95%) and waiting until it has evaporated.
The resulting surface texture is heavily dependent on the conditions on the building site, as well as the working procedure used. It is therefore not covered under product liability.
Low thickness and low temperature can affect the visual effect of the finished surface.
Depending on the application and system, pores may be created due to air pockets when texturing the thixotropic coating material. These may accumulate dirt during use.
Abrasive mechanical loads leave traces of wear.
Suitable for vehicle traffic with rubber tyres; not suitable for vehicle loads with metal or polyamide tyres nor for dynamic point loads.
Epoxy resins are generally not colourfast when exposed to UV light or weather.
In case of repairs on the surface or working up to existing surfaces, there will be a visible transition in appearance and texture.

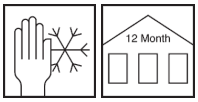
Anti-slip floors naturally require more cleaning effort than smooth surfaces. Therefore, the use of cleaning machines with soft brushes is recommended.
Further notes on working, system construction and maintenance of the listed products can be found in the latest Technical Data Sheets and the Remmers system recommendations.

Tools / Cleaning

Smoothing trowel, suitable textured roller, suitable mixer

More detailed information can be found in the Remmers Tool Programme.
Clean tools, equipment and splashed material immediately while fresh with V 101.
Take suitable protective and waste disposal measures when cleaning.

Storage / Shelf life



If stored unopened in the original container and kept cool, dry and protected from frost, min. 12 months (component A)/min. 24 months (component B).

Safety data / Regulations

For professional users only!

For further information on the safety aspects of transporting, storing and handling the product and on disposal and environmental matters, please see the current Safety Data Sheet and the brochure entitled "Epoxy Resins in the Construction Industry and the Environment", issued by Deutsche Bauchemie e.V. (3rd edition 2022).

Disposal

Larger quantities of leftover product should be disposed of in the original containers in accordance with the applicable regulations. Completely empty, clean containers should be recycled. Do not dispose of together with household waste. Do not allow to enter the sewage system. Do not empty into drains.

VOC content as per the "Decopaint" Directive (2004/42/EC)

EU limit value for the product (cat A/j): max. 500 g/l (2010).
This product contains < 500 g/l VOC.

Declaration of conformity

CE UKCA

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20 (CE); 21 (UKCA)
GBIII 157_2
EN 13813:2002
6838

Synthetic resin screed for use internally in buildings

Reaction to fire:	E_{fl}
Release of corrosive substances:	SR
Wear resistance:	≤ AR 0.5
Bond strength:	≥ B 1.5
Impact resistance:	≥ IR 4