



## Epoxy ESD Color 2K

ESD-compliant coating

Colour	Availability
	Quantity per pallet
	<b>Size / Quantity</b> 25 kg
	Type of container Tin bucket
	Container code 26
	<b>Art. no.</b>
light grey	6687 ■
special colours from 100 kg	6686 ■

Application rate See application examples

Range of use ■ Self-levelling coating for ESD protected areas

Property profile

- Dissipative / ESD-compliant
- Can be subjected to mechanical loads
- Can be subjected to chemical loads
- Suitable for hand pallet trucks and forklift trucks
- Physiologically harmless once fully cured

Characteristic data of the product

	Component A	Component B	Mixture
Density (20 °C)	1.61 g/cm <sup>3</sup>	1.06 g/cm <sup>3</sup>	1.47 g/cm <sup>3</sup>
Viscosity (25 °C)	4000 mPa s	120 mPa s	1200 mPa s

■ Once fully cured	
Reaction to fire (DIN EN 13501-1)	B <sub>fl</sub> -s1* (Low Flammability)
Slip resistance class (DIN EN 51130:2014)	R9 (level of blinding 10% Glimmer GHL 3/0) R10 (level of blinding 20% Glimmer GHL 3/0)
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)
Abrasion according to Taber test	35 mg (CS10, 1000 U, 1000 g)
Shore D after 28 days	approx. 75
Flexural tensile strength	> 23 N/mm <sup>2</sup>
Compressive strength	70 N/mm <sup>2</sup>

\* 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 > [Prüfbericht Brandklassifizierung - Remmers ableitfähige Systeme](#)

Possible system products > [Epoxy Conductive \(6671\)](#)

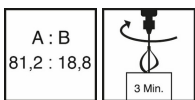


- > Epoxy ST 100 (1160)
- > Copper Tape (4551)

#### 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.  
The adhesive pull strength of the surface after priming must be at least 1.5 N/mm<sup>2</sup> on average (smallest single value min. 1.0 N/mm<sup>2</sup>), compressive strength at least 25 N/mm<sup>2</sup>.  
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.  
Refer to the current Technical Data Sheet for detailed information on the single products.  
Epoxy Conductive must be applied according to the current Technical Data Sheet as transverse conducting layer.

#### 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).  
Mix for at least 3 minutes.  
Insufficient mixing is indicated by streaks forming.

<b>Mixing ratio (A : B)</b>	81.2 : 18.8 parts by weight
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As soon as the mixture is ready to use, apply all of it to the prepared surface and spread it using a suitable tool.

#### Directions



For professional users only!

- **Conditions for use**  
Temperature of the material, air and substrate: from min. +12 °C to max. +30 °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. 25 minutes
- **Drying time (+20 °C)**  
Foot traffic after 1 day, 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

Application	Degree of filling with Selectmix 01/03	Binder application rate [kg/m <sup>2</sup> ]	Mixture application rate [kg/m <sup>2</sup> ]	Toothed blade	Application rate per mm coating thickness [kg/m <sup>2</sup> ]
Coating approx. 1.1 mm	unfilled	1.8	-	No. 46	1.50
Filled coating	1 : 0.3	min. 1.8	min. 2.4	No. 48	1.55

- **Coating**  
Pour the material onto the prepared substrate and then distribute using a suitable tool, e.g. a notched trowel or notched scraper.  
Afterwards roll over with a (metal) spiked roller.

Application rate	(see table)
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- **Filled coating**  
Pour the material onto the prepared substrate and then distribute using a suitable tool, e.g. a notched trowel or notched scraper.  
Afterwards roll over with a (metal) spiked roller.

Application rate	(see table)
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#### 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.

Due to the black transverse conducting layer, poorly covering colours are not to be used.

Before the application of the covering layer, the correct functioning of the transverse conducting layer and of the connections must be proved and registered in a measurement report.

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.

In case of possible permanent exposure to water or prolonged accumulations of moisture, the formation of white stains on the surface is possible. This does not affect the technical properties of the coating.

Low thickness and low temperature can affect the visual effect of the finished surface.

Abrasive mechanical loads leave traces of wear.

High concentrated loads can leave marks on the impact resistant coating.

Exposure to vehicles with metal or polyamide tyres as well as dynamic concentrated loads can cause faster wearing of the coating.

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.

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



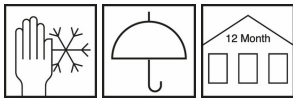
Notched trowel, notched scraper, mixer, spiked roller

More detailed information can be found in the Remmers Tool Programme.

Clean tools, equipment and splashed material immediately while fresh with V 101 Thinner.

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. (2nd edition 2009).

#### 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.

VOC	
Kat.	A/j
2010:	500g/l
max.:	500g/l



Declaration of conformity



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CE 20 / UKCA 21  
GBIII 147  
EN 13813:2002  
6686

Synthetic resin screed for use internally in buildings

Reaction to fire:	E <sub>n</sub>
Release of corrosive substances:	SR
Wear resistance:	≤ AR 1
Bond strength:	≥ B 1.5
Impact resistance:	≥ IR 4

Please note that the data and information given above have been calculated as guidelines in the laboratory and from real-life experience and are therefore not binding as a basic principle.

This information is therefore of a general nature only and describes our products and how they are used and worked with. In this respect, it must be borne in mind that the varied and diverse nature of the

prevailing working conditions, materials used and construction sites encountered means that not every individual case can be covered. In this respect, we therefore recommend either conducting tests or liaising with us in the event of any doubt. Unless we have provided express written assurance of the products' specific suitability or characteristics in respect of a contractually stipulated intended use, any technical application-related advice or instruction will never

be binding, even though it is provided to the best of our knowledge. In all other respects, our general terms and conditions of sale and delivery shall apply.

When a new version of this Technical Data Sheet is published, it shall replace the previous version.