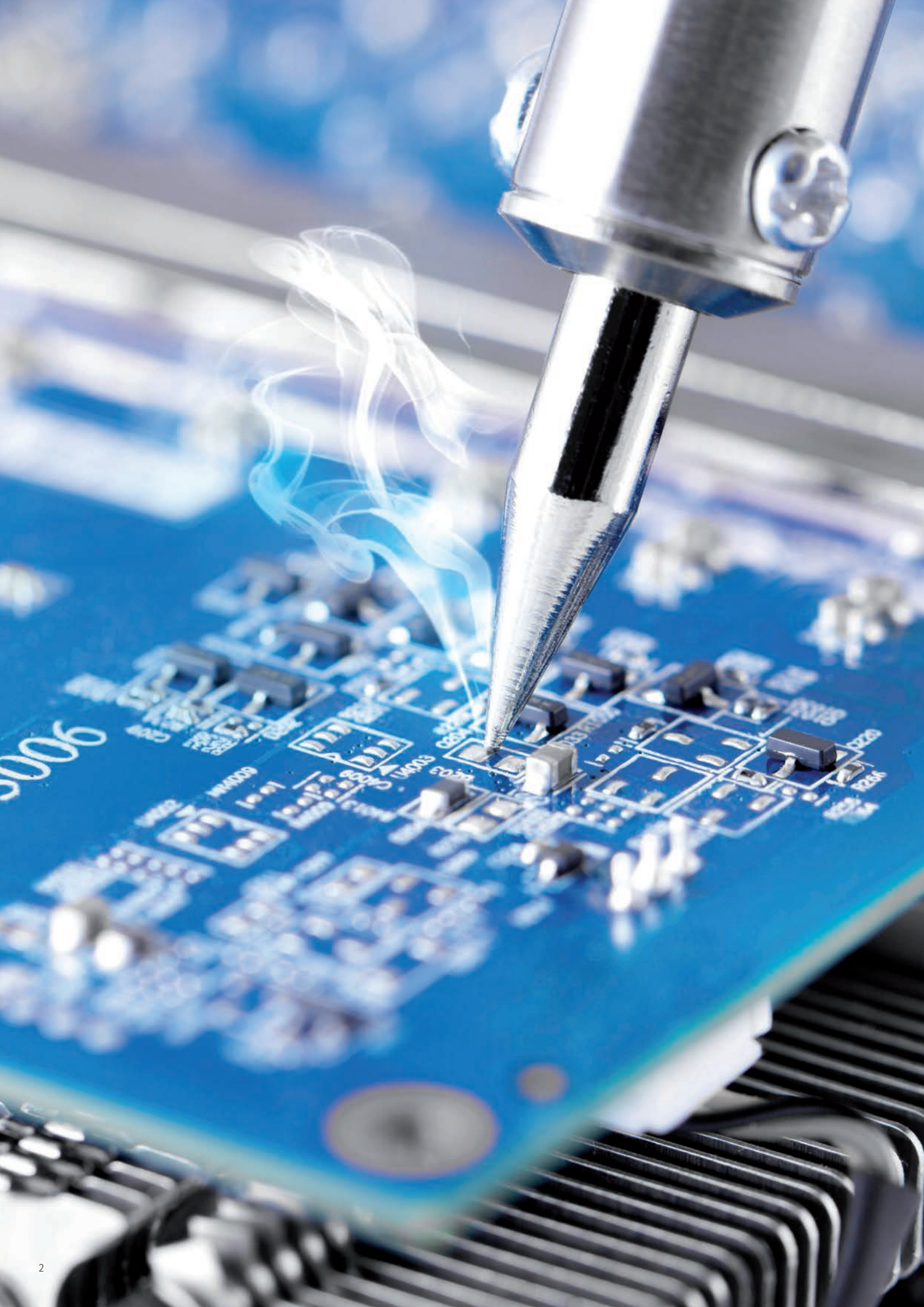
remmers

Floor coatings with ESD/AS function

Maximum safety even at the smallest discharges



Coatings for special requirements

Maximum safety even at the smallest discharges!

ESD and AS coatings minimise the risks to humans and machines

Practical system solutions and planning aids for long-lasting protection and maximum safety

Electrostatic charging and discharging occur almost everywhere in everyday life (for example when working at a desk, walking across a carpet, or picking up a plastic bag). Even brief contact between two bodies creates an electrostatic charge, which can discharge again upon contact with another body.

This phenomenon can damage electrostatically sensitive components, such as microelectronics, as these are becoming increasingly delicate nowadays and are therefore more susceptible to ESD damage. Often, even the smallest discharges are sufficient to cause malfunctions or complete failure of the components. However, this often occurs only when using the final product, which results in cost-intensive downtime or product recalls.

Meanwhile, explosive media or chemicals also pose a major problem, as they can cause fires, explosions or financial losses due to sparking.

Preventing such damage is an absolute priority, because the potential cost of this damage justifies any effort needed. The high-quality ESD and AS coatings from Remmers minimise these dangers significantly.

Prevention and protection with Remmers floor systems

Floor systems can be protected from static electricity in two ways: firstly by preventing the floor from becoming charged, and secondly by ensuring controlled discharge. Our floor systems make a significant contribution to protecting people and products from the effects of uncontrolled electrostatic discharge.

We provide individual system solutions for every application. Additional properties and requirements, such as slip resistance, cleanability, cleanroom requirements or mechanical and chemical resistance also pose no problem for our systems.

Standards and regulations

What rules do I have to comply with, and when?

The core task of conductive coatings is to dissipate any charges that arise via the floor to the earth compensation potential so that no dangerous charging occurs. Depending on the requirements, there are various standards that must be adhered to.

DIN EN 1081
This standard concerns the determination of the electrical resistance of floor coverings using a tripod electrode. It is a pure measuring standard and does not specify any limit values. It is used as the measuring standard for TRGS 727.

TRGS 727
The Technical Rule for Hazardous Substances (TRGS) is concerned with the prevention of ignition hazards due to electrostatic charges. The requirement for the resistance to earth of the floor is $R_E < 10^8$ Ω ($R_E < 10^6$ Ω for explosive materials). DIN EN 1081 is normally used as the measuring standard.

DIN EN 61340-5-1
This standard describes the protection of electronic devices from electrostatic phenomena. It is the "umbrella standard" for ESD applications. It defines the requirements for all components relevant to ESD protected areas (EPAs). For flooring, the standard specifies a resistance to earth of $R_E < 10^9$ Ω. The standard also specifies the requirement for system resistance (human – shoe – floor), which is $R_G < 10^9$ Ω, and the requirement for body voltage (walking test), which is < 100 V. The measuring methods are described in the standards DIN EN 61340-4-1 and DIN EN 61340-4-5.

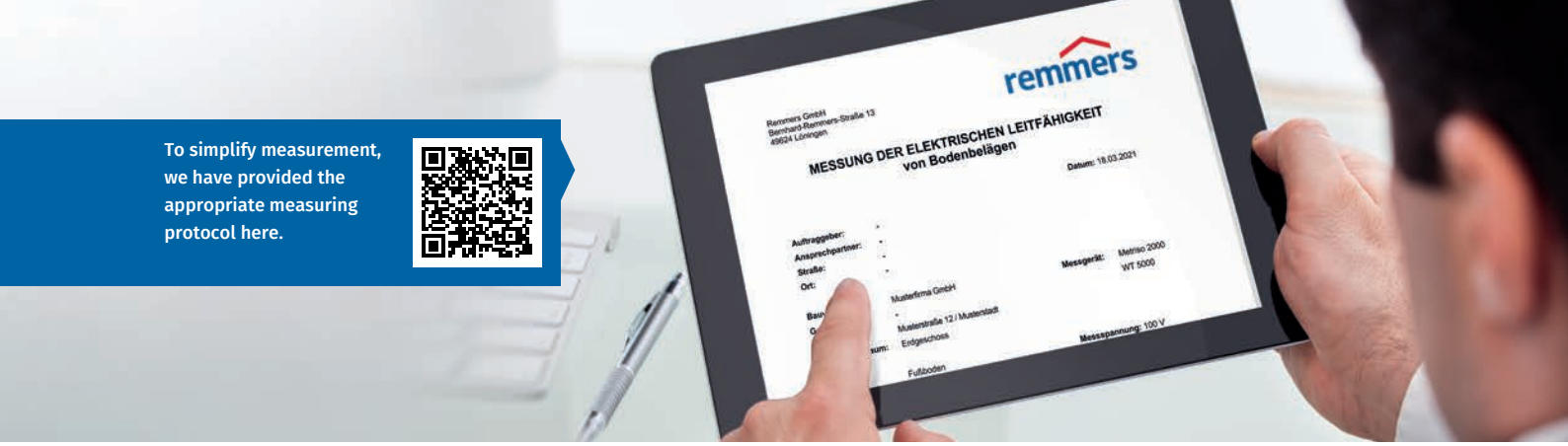
DIN EN 61340-4-1
This is the test procedure for measuring the resistance to earth (see DIN EN 61340-5-1). The electrode used is a round electrode weighing 2.5 kg ± 0.25 kg, which is equipped with a conductive rubber on the underside. No limit values are specified here.

DIN EN 61340-4-5
This standard contains the test procedure for measuring the system resistance (human – shoe – floor) and the body voltage (walking test). Both measurements use a stainless steel hand electrode with a length of 25–75 mm. No limit values are specified here.

DIN EN 61340-6-1
This standard governs the monitoring of electrostatics in healthcare environments. Static electricity (e.g. electrostatic discharge) can be a source of danger for patients and staff in many ways. Operating rooms, pre-op and recovery rooms, and intensive care units in particular are equipped with highly complex technology. In these areas, the resistance to earth must be $R_E < 10^9$ Ω ($R_E < 10^6$ Ω if flammable anaesthetics are used). Measurement is conducted in accordance with 61340-4-1.

AwSV / WHG approval
This standard regulates the leakage resistance of flammable substances hazardous to water with a flash point < 55 °C (in facilities use for storage, filling and handling of these substances). The following requirements apply to the resistance to earth:

- $R_E < 10^8$ Ω < 50% RH
- $R_E < 10^7$ Ω < 70% RH
- $R_E < 10^6$ Ω > 70% RH



To simplify measurement, we have provided the appropriate measuring protocol here.

General tips on measurement

There are various measuring standards that explain the exact procedure, some of which are very complex. To make this a little easier, we've put together some general tips to guide you. The testing standards include DIN EN 1081, DIN EN 61340-4-1 and DIN EN 61340-4-5. Below you will find a general procedure for conducting tests in a building.

Preparation

- Testing of the laid surface after 7 days at the earliest
- Surface to be tested must be clean and dry (for more details, see p. 35)
- Measuring electrodes, conductive footwear and contact surfaces are to be cleaned with a cotton cloth and isopropyl alcohol or ethanol (concentration ≥ 95%) and brought to room temperature
- Footwear must be worn for at least 10 minutes before measurement

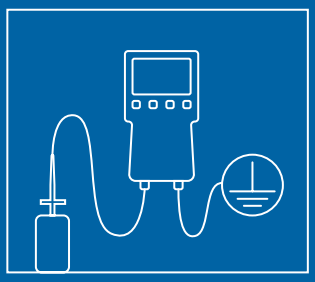
Procedure

- Room temperature, surface temperature and relative humidity must be noted
- Resistance of the footwear is to be determined (metal plate) and noted down
- Before starting the measurement, make sure that the rubber feet of the electrodes and the shoes are completely dry.
- Experience has shown that a measurement should also be carried out directly above a point that can be earthed at each of the selected measurement points

Note:

If a measured value is out of specification, we recommend taking another measurement at a distance of 20 cm. Isolated deviations may occur during the measurement process, but these do not impair the function of the flooring.

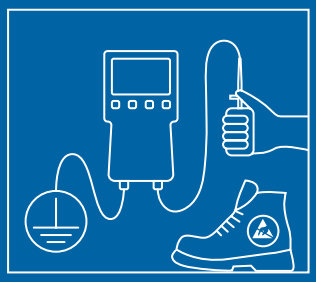
Resistance to earth



Resistance to earth (DIN EN 61340-4-1)

- Measurement voltage: 100 V*
- At least 6 measurements (one more for every additional 100 m²)

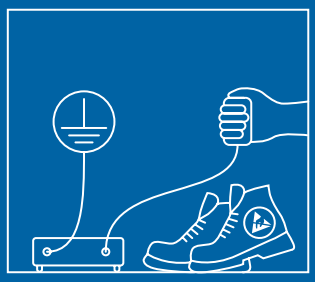
System resistance



Human – shoe – floor (DIN EN 61340-4-5)

- Measurement voltage: 100 V*
- At least 5 measurements (five more for every additional 500 m²)

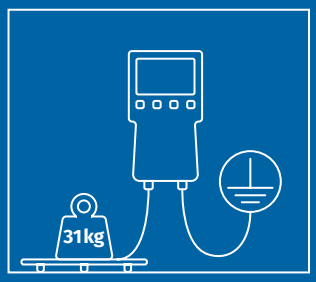
Body voltage



Walking test (DIN EN 61340-4-5)

- At least 5 measurements (five more for every additional 500 m²)

Resistance to earth



Three point electrode (DIN EN 1081)

- Measurement voltage 100 V*
- Min. 300 N (approx. 31 kg) applied to the electrode
- At least 3 measurements (one more for every additional 100 m²)

* A voltage of 100 V is normally used for measurement. If the resistance is ≤ 1.0×10^6 Ω, the voltage is reduced to 10 V.

The difference between ESD-compliant and conductive floor coatings

What do I need and when?

ESD (**e**lectro**s**tatic **d**ischarge)

Definition	Reliably prevents the charging of persons, and quickly and safely conducts this electrostatic charge to an earthing point, eliminating the possibility of damage to electrical components. This primary requirement (< 100 V) for ESD coatings differs from that of conventional conductive coatings.
Item(s) protected	Sensitive components
Requirements	DIN EN 61340-5-1
Measuring standard	DIN EN 61340-4-1 DIN EN 61340-4-5
Key figures	Resistance to earth (< 10^9 Ω) Body voltage (< 100 V) System resistance (< 10^9 Ω)
Examples	Production and packaging halls for electronic components such as microelectronics, sensors, microchips and PCBs
Areas of application	Electronics industry Supplier and automotive industry Aviation industry

AS (**a**nti**s**tatic)

Definition	Reliably prevents the charging of persons, and quickly and safely conducts this electrostatic charge to an earthing point, eliminating the possibility that any ignitable mixtures can be ignited. The primary requirement here is the resistance to earth (R_E).
Item(s) protected	Buildings (against explosions and fires)
Requirements	TRGS 727
Measuring standard	DIN EN 1081 DIN EN 61340-4-1
Key figures	Resistance to earth (< 10^8 Ω or < 10^6 Ω) Body voltage (< 2000 V (AS))
Examples	Explosion protection (highly flammable and combustible liquids (chemicals)) – gases, vapours, dusts, explosives (ammunition, pyrotechnics)
Areas of application	Traditional industry Chemical industry (water pollution control) Storage areas Research facilities and laboratories

Perfect system solutions for cleanrooms

A cleanroom is a space in which the concentration of airborne particles, such as dust, must be kept very low to ensure the quality of the final product. The respective cleanroom class is derived from the quantity of particles per cubic metre. The lower the particle count, the lower the class. DIN EN ISO 14644-1 defines cleanroom classes of ISO 1 to ISO 9, with ISO 1 being the cleanest.

Cleanroom requirements in combination with ESD requirements exist in many areas, but are of particular importance in semiconductor manufacturing, the electronics industry or even in the automotive industry. Even the smallest particles can disrupt the manufacturing process and cause damage. But airborne molecules (VOCs) can also contaminate the air. It is therefore important that both particulates and emissions are kept to a minimum. As a result, choosing the right floor system is essential.

Examples of other requirements:

- Jointless installation
- Very easy to clean
- Abrasion-resistant surface
- Minimal maintenance
- Safety-relevant detailed solutions

1 Chemical industry

Extreme caution must be exercised wherever chemicals, fuels, solvents and other highly flammable substances are stored or moved. The requirements pertaining to antistatic safety and water pollution prevention must be adhered to. With the ESD/AS systems from Remmers, you can be sure to get it right.

2 Traditional industry

Whether in mechanical engineering, the printing industry, the pharmaceutical industry or similar, special care must be taken where static charges occur and can cause fires or explosions. The choice of the right floor coating with a high wear resistance plays a major role here.

3 Electronics industry

When producing microchips, semiconductors and other electronic components, the requirements for ESD-compliant floor coverings are particularly high. Even the smallest electrostatic discharges can do major damage here, while particles and emissions can cause problems too. Therefore, the highest quality standards must be achieved even during the coating process.

4 Automotive and supplier industry

The increasing focus on electromobility has elevated not just the demand for but also the requirements placed on ESD-compliant floor coatings (circuits) in the automotive and supplier industry. Here, Remmers offers professional solutions with maximum efficiency for users and customers.

Safety-relevant ESD floor systems

For increased work safety around sensitive components

The work performed here involves highly sensitive components, which are also referred to as ESDS (electrostatic discharge sensitive). To ensure the quality of the products, they must be protected from electrostatic discharges. Such sensitive components are often handled in a so-called EPA (electrostatic protected area). In this case, the floor represents part of the equipment in an EPA. Our ESD-compliant floor systems meet these requirements.

TX TECH 4030

ESD-compliant textured coating – no transverse conducting layer necessary

ESD-compliant textured coating (dimpled surface) for moderate mechanical loads.

Application

- Automotive industry
- Mechanical engineering
- Production halls and workshops in the electronics industry
- Aviation industry

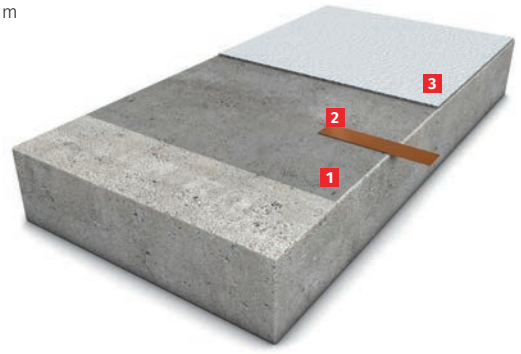
Property profile

- High abrasion resistance
- Hard-wearing surface
- Easy to clean and provides sure footing
- No transverse conducting layer needed

Test certificates *

- Slip resistance R9
- Chemical resistance list
- Fire class B_{fl}-s1
- External conductivity test

System layer thickness:
< 1.0 mm



Structure	Product/product details		Application
1 Primer	Epoxy ST 100	p. 38	~ 0.30 kg/m²
Scratch coat** (optional)	Epoxy ST 100	p. 38	~ 0.50 kg/m²
	+ filler e.g. Selectmix 01/03	p. 58	~ 0.50 kg/m²
2 Earth connection	Copper strip	p. 55	~ 0.10 m/m²
3 Flow coating	Epoxy TX Color ESD	p. 47	~ 0.50 - 0.60 kg/m²

** Colour matching possible with Epoxy Primer PF

* For more detailed information, refer to the currently valid Technical Data Sheet/system configurations and the applicable test certificate. Test certificates may only apply to a specific product, meaning that the above-mentioned system is not necessarily part of the certified scope. Different R classes can be achieved by changing the sealing coat and blinding material.

TX TECH 4020

ESD-compliant textured coating – no transverse conducting layer necessary

ESD-compliant hard grain coating with textured surface (hard grain dimpled surface) for moderate mechanical loads.

Application

- Automotive industry
- Mechanical engineering
- Production halls and workshops in the electronics industry
- Aviation industry

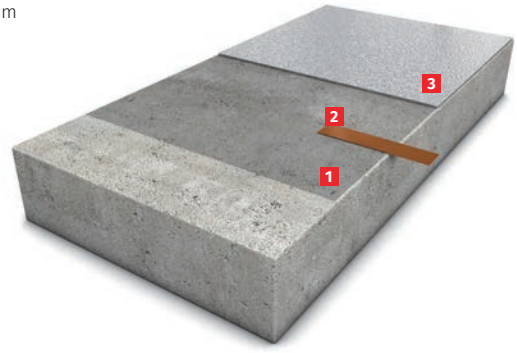
Property profile

- High wear resistance
- Anti-slip surface
- No transverse conducting layer needed

Test certificates *

- Slip resistance R10
- Chemical resistance list
- Fire class B_{fl}-s1
- External conductivity test

System layer thickness:
< 1.0 mm



Structure	Product/product details		Application
1 Primer	Epoxy ST 100	p. 38	~ 0.30 kg/m²
Scratch coat** (optional)	Epoxy ST 100	p. 38	~ 0.50 kg/m²
	+ filler e.g. Selectmix 01/03	p. 58	~ 0.50 kg/m²
2 Earth connection	Copper strip	p. 55	~ 0.10 m/m²
3 Flow coating	Epoxy SIC Color ESD	p. 47	~ 0.60 kg/m²

** Colour matching possible with Epoxy Primer PF

* For more detailed information, refer to the currently valid Technical Data Sheet/system configurations and the applicable test certificate. Test certificates may only apply to a specific product, meaning that the above-mentioned system is not necessarily part of the certified scope. Different R classes can be achieved by changing the sealing coat and blinding material.

SL TECH 4010

ESD-compliant flow coating

ESD-compliant, coloured flow coating system.

Application

- Automotive industry
- Mechanical engineering
- Production halls and workshops in the electronics industry
- Pharmaceutical industry
- Aviation industry

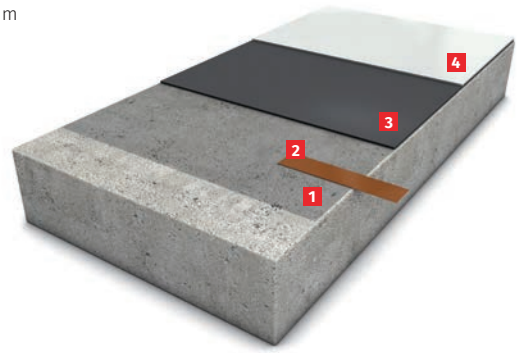
Property profile

- Fillable
- High wear resistance
- Surface can be made slip-resistant

Test certificates *

- Slip resistance R9 / R10
- Chemical resistance list
- Fire class B_{fl}-s1
- External conductivity test

System layer thickness:
< 1.0 mm



Structure	Product/product details		Application
1 Primer	Epoxy ST 100	p. 38	~ 0.30 kg/m²
Scratch coat** (optional)	Epoxy ST 100	p. 38	~ 0.50 kg/m²
	+ filler e.g. Selectmix 01/03	p. 58	~ 0.50 kg/m²
2 Earth connection	Copper strip	p. 55	~ 0.10 m/m²
3 Transv. cond. layer	Epoxy Conductive (LE)	p. 54 p. 55	~ 0.15 kg/m²
4 Flow coating	Epoxy ESD Color 2K	p. 48	~ 1.80 kg/m²
Blinding (optional)	Mica GHL 3/0	p. 62	~ 0.02 kg/m² (< 20% coverage)

** Colour matching possible with Epoxy Primer PF

* For more detailed information, refer to the currently valid Technical Data Sheet/system configurations and the applicable test certificate. Test certificates may only apply to a specific product, meaning that the above-mentioned system is not necessarily part of the certified scope. Different R classes can be achieved by changing the sealing coat and blinding material.

SL TECH 4040

ESD-compliant sealing coat

Aqueous ESD-compliant sealant system
with a matt surface.

Application

- For low to moderate loads in ESD protected areas

Property profile

- Matt surface
- Good hiding power
- Low abrasion
- Easy to apply
- Surface can be made slip-resistant
- Cost-effective sealing coat for refurbishment

Test certificates *

- Slip resistance R9 / R10 / R11
- Chemical resistance list
- Fire class B_{fl}-s1
- External conductivity test

System layer thickness:
approx. 1.3 mm

Structure	Product/product details		Application
1 Primer	Epoxy ST 100	p. 38	~ 0.30 kg/m²
Scratch coat** (optional)	Epoxy ST 100	p. 38	~ 0.50 kg/m²
	+ filler e.g. Selectmix 01/03	p. 58	~ 0.50 kg/m²
2 Earth connection	Copper strip	p. 55	~ 0.10 m/m²
3 Transv. cond. layer	Epoxy Conductive (LE)	p. 54 p. 55	~ 0.15 kg/m²
4 Flow coating	Epoxy AS Color	p. 51	~ 1.80 - 2.50 kg/m²
5 Sealing coat	PUR Aqua Top ESD	p. 46	min. 0.14 kg/m²

** Colour matching possible with Epoxy Primer PF

* For more detailed information, refer to the currently valid Technical Data Sheet/system configurations and the applicable test certificate. Test certificates may only apply to a specific product, meaning that the above-mentioned system is not necessarily part of the certified scope. Different R classes can be achieved by changing the sealing coat and blinding material.

SL FLOOR ESD 01

ESD-compliant flow coating

ESD-compliant, coloured flow coating system.
Optionally with non-slip surface R 10.

Application

- Automotive industry
- Mechanical engineering
- Production halls and workshops in the electronics industry
- Pharmaceutical industry
- Aviation industry

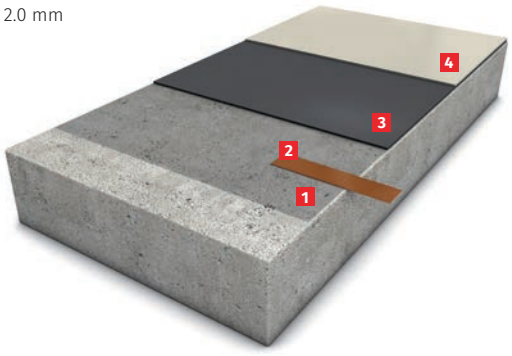
Property profile

- Crack-bridging
- Cost-effective layer thickness ratio
- Surface can be made slip-resistant
- Extensive package of test certificates

Test certificates *

- Slip resistance R 10
- Chemical resistance list
- Crack bridging test
- Cleanroom test (ISO 14644-1): Class 4
- Fire class B_{fl}-s1
- External conductivity test

System layer thickness:
approx. 2.0 mm



Structure	Product/product details		Application
1 Primer	Epoxy ST 100	p. 38	~ 0.30 kg/m²
Scratch coat** (optional)	Epoxy ST 100	p. 38	~ 0.50 kg/m²
	+ filler e.g. Selectmix 01/03	p. 58	~ 0.50 kg/m²
2 Earth connection	Copper strip	p. 55	~ 0.10 m/m²
3 Transv. cond. layer	Epoxy Conductive (LE)	p. 54 p. 55	~ 0.15 kg/m²
4 Flow coating	Epoxy ESD Color 3K	p. 48	~ 2.70 - 3.00 kg/m²
Blinding (optional)	Mica GHL 3/0	p. 62	~ 0.02 kg/m² (< 20% coverage)

** Colour matching possible with Epoxy Primer PF

* For more detailed information, refer to the currently valid Technical Data Sheet/system configurations and the applicable test certificate. Test certificates may only apply to a specific product, meaning that the above-mentioned system is not necessarily part of the certified scope. Different R classes can be achieved by changing the sealing coat and blinding material.

Remmers Epoxy ESD Color 3K

- ESD properties as per DIN EN 61340-5-1 (at 12% relative humidity)
- Static crack-bridging as per DIN EN 1062-7: A2 (> 0.25 mm)
- Cleanroom test as per ISO 14644-1: Class 4
- Test report on emission properties/VOCs: 1.3 × 10^{-9} (at 23 °C)
- ISO-ACCm class as per VDI 2083-17: -8.9

Conductive floor systems

For maximum work safety around potentially explosive substances

Highly flammable liquids are used in many areas, such as the chemical industry, water pollution control and printing plants. It is crucial to divert any charge into the ground to protect people and machinery from explosions and fires. Our AS-compliant floor systems meet the relevant requirements.

TC FLOOR WDD AS

Water vapour diffusible, conductive sealing coat

Conductive, water vapour diffusible sealant system.

Application

- Storage rooms
- Technical equipment rooms
- Corridors in production halls

Property profile

- Water vapour diffusible
- Good abrasion resistance
- Conductive

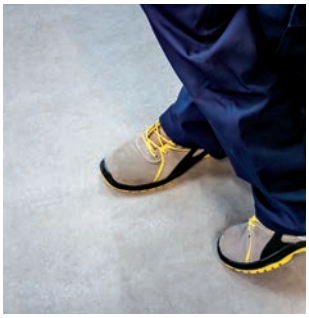
Test certificates *

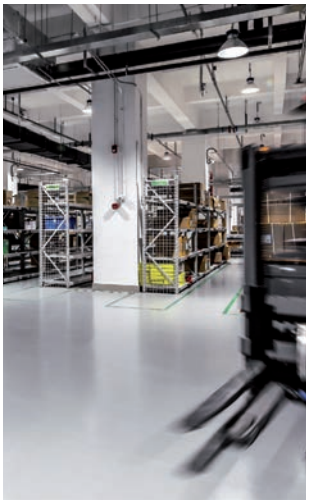
- Fire class B_{fl}-s1
- External conductivity test

System layer thickness:
< 0.5 mm

Structure	Product/product details		Application
1 Primer	Epoxy BS 2000	p. 42	~ 0.20 kg/m²
Scratch coat (optional)	Epoxy BS 4000	p. 43	~ 0.50 kg/m²
	+ filler e.g. Selectmix SBL DF	p. 59	~ 0.50 kg/m²
2 Earth connection	Copper strip	p. 55	~ 0.10 m/m²
3 Transv. cond. layer	Epoxy Conductive (LE)	p. 54 p. 55	~ 0.15 kg/m²
4 Flow coating	Epoxy BS 3000 AS	p. 49	~ 0.20 kg/m²

* For more detailed information, refer to the currently valid Technical Data Sheet/system configurations and the applicable test certificate. Test certificates may only apply to a specific product, meaning that the above-mentioned system is not necessarily part of the certified scope. Different R classes can be achieved by changing the sealing coat and blinding material.





TX FLOOR AS 02

Conductive textured coating

Conductive textured coating (dimpled surface) for moderate mechanical loads.

Application

- Production halls
- Assembly halls
- Storage halls

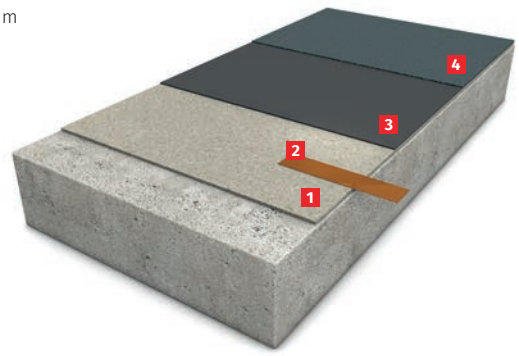
Property profile

- Abrasion-resistant
- Easy to clean and provides sure footing

Test certificates *

- Slip resistance R9
- Chemical resistance list
- Fire class B_{fl}-s1
- External conductivity test

System layer thickness:
< 1.0 mm



Structure	Product/product details		Application
1 Primer	Epoxy Primer PF	p. 41	~ 0.40 kg/m²
Scratch coat (optional)	Epoxy Primer PF + filler e.g. Selectmix 01/03	p. 41 p. 58	~ 1.00 kg/m² ~ 0.50 kg/m²
2 Earth connection	Copper strip	p. 55	~ 0.10 m/m²
3 Transv. cond. layer	Epoxy Conductive (LE)	p. 54 p. 55	~ 0.15 kg/m²
4 Flow coating	Epoxy TX Color AS	p. 49	~ 0.50 - 0.60 kg/m²

* For more detailed information, refer to the currently valid Technical Data Sheet/system configurations and the applicable test certificate. Test certificates may only apply to a specific product, meaning that the above-mentioned system is not necessarily part of the certified scope. Different R classes can be achieved by changing the sealing coat and blinding material.

TX FLOOR AS 01

Conductive textured coating

Conductive hard grain coating with textured surface (hard grain dimpled surface) for moderate mechanical loads.

Property profile

- High wear resistance
- Anti-slip surface
- Conductive

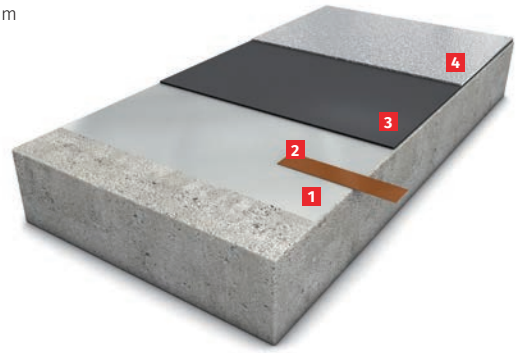
Application

- Plant engineering
- Metalworking industry

Test certificates *

- Slip resistance R10
- Chemical resistance list
- Rear moisture saturation test (Epoxy Primer PF)
- Fire class B_{fl}-s1
- External conductivity test

System layer thickness:
< 1.0 mm



Structure	Product/product details		Application
1 Primer	Epoxy Primer PF	p. 41	~ 0.40 kg/m²
Scratch coat (optional)	Epoxy Primer PF + filler e.g. Selectmix 01/03	p. 41 p. 58	~ 1.00 kg/m² ~ 0.50 kg/m²
2 Earth connection	Copper strip	p. 55	~ 0.10 m/m²
3 Transv. cond. layer	Epoxy Conductive (LE)	p. 54 p. 55	~ 0.15 kg/m²
4 Flow coating	Epoxy SIC Color	p. 50	~ 0.60 kg/m²

* For more detailed information, refer to the currently valid Technical Data Sheet/system configurations and the applicable test certificate. Test certificates may only apply to a specific product, meaning that the above-mentioned system is not necessarily part of the certified scope. Different R classes can be achieved by changing the sealing coat and blinding material.

SL FLOOR AS 01

Conductive flow coating

Conductive, coloured flow coating system.

Application

- Production halls
- Printing presses
- Storage areas

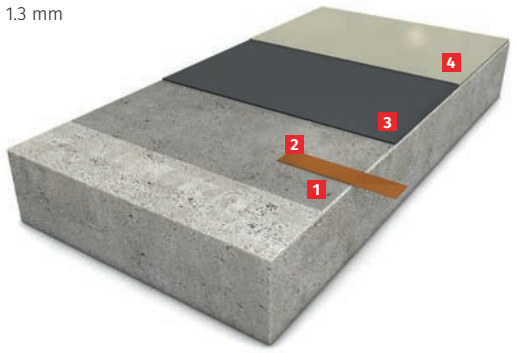
Property profile

- Surface can be made slip-resistant
- Good mechanical resistance
- Cost-effective

Test certificates *

- Slip resistance R9
- Chemical resistance list
- Rear moisture saturation in the OS 8 system
- Fire class B_{fl}-s1
- External conductivity test

System layer thickness:
approx. 1.3 mm



Structure	Product/product details		Application
1 Primer	Epoxy ST 100	p. 38	~ 0.30 kg/m²
Scratch coat ** (optional)	Epoxy ST 100	p. 38	~ 0.50 kg/m²
	+ filler e.g. Selectmix 01/03	p. 58	~ 0.50 kg/m²
2 Earth connection	Copper strip	p. 55	~ 0.10 m/m²
3 Transv. cond. layer	Epoxy Conductive (LE)	p. 54 p. 55	~ 0.15 kg/m²
4 Flow coating	Epoxy AS Color	p. 51	~ 1.80 - 2.50 kg/m²
Blinding (optional)	Mica GHL 3/0	p. 62	~ 0.02 kg/m² (< 20% coverage)

** Colour matching possible with Epoxy Primer PF

* For more detailed information, refer to the currently valid Technical Data Sheet/system configurations and the applicable test certificate. Test certificates may only apply to a specific product, meaning that the above-mentioned system is not necessarily part of the certified scope. Different R classes can be achieved by changing the sealing coat and blinding material.

SL TECH 4060

Conductive flow coating

Conductive, crack-bridging and flexible coloured flow coating system.

Application

- Production halls
- Printing presses
- Storage areas

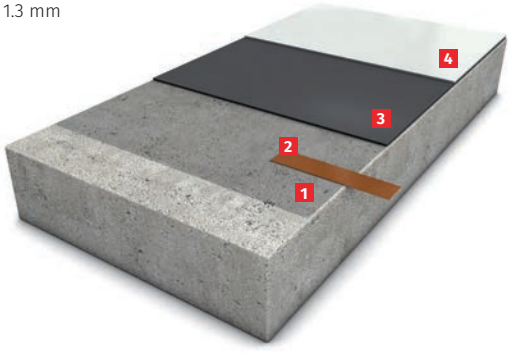
Property profile

- Surface can be made slip-resistant
- Conductive
- Crack-bridging

Test certificates *

- Slip resistance R9
- Chemical resistance list
- Emissions test
- Fire class B_{fl}-s1

System layer thickness:
approx. 1.3 mm



Structure	Product/product details		Application
1 Primer	Epoxy ST 100	p. 38	~ 0.30 kg/m²
Scratch coat ** (optional)	Epoxy ST 100	p. 38	~ 0.50 kg/m²
	+ filler e.g. Selectmix 01/03	p. 58	~ 0.50 kg/m²
2 Earth connection	Copper strip	p. 55	~ 0.10 m/m²
3 Transv. cond. layer	Epoxy Conductive (LE)	p. 54 p. 55	~ 0.15 kg/m²
4 Flow coating	PUR Uni Color AS	p. 51	~ 1.50 - 2.00 kg/m²
Sealing coat (optional)	PUR Aqua Top ESD	p. 46	min. 0.14 kg/m²

** Colour matching possible with Epoxy Primer PF

* For more detailed information, refer to the currently valid Technical Data Sheet/system configurations and the applicable test certificate. Test certificates may only apply to a specific product, meaning that the above-mentioned system is not necessarily part of the certified scope. Different R classes can be achieved by changing the sealing coat and blinding material.

SL FLOOR WHG AS 01

Conductive WHG-compliant coating

Conductive and chemical-resistant coloured flow coating system, approved under the German Federal Water Act (WHG).

Application

- Potentially explosive atmospheres
- Collecting basins
- Storage areas

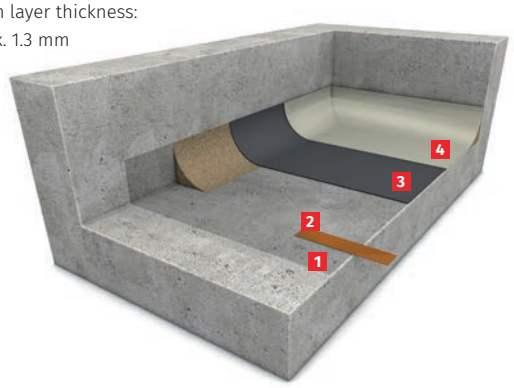
Property profile

- Surface can be made slip-resistant
- Crack-bridging
- Conductive

Test certificates *

- Slip resistance R 10
- Chemical resistance list
- Emissions test
- National Technical Approval
- Crack bridging test
- Trafficability test
- Fire class B_{fl}-s1
- External conductivity test

System layer thickness:
approx. 1.3 mm



Structure	Product/product details		Application
1 Primer	Epoxy GL 100	p. 40	~ 0.30 kg/m²
Scratch coat (optional)	Epoxy GL 100	p. 40	~ 0.50 kg/m²
	+ filler e.g. Selectmix 01/03	p. 58	~ 0.50 kg/m²
2 Earth connection	Copper strip	p. 55	~ 0.10 m/m²
3 Transv. cond. layer	Epoxy Conductive	p. 54	~ 0.15 kg/m²
4 Flow coating	Epoxy WHG Color AS	p. 52	min. 1.50 kg/m²
Blinding (optional)	Mica GHL 3/0	p. 62	~ 0.02 kg/m² (< 20% coverage)

* For more detailed information, refer to the currently valid Technical Data Sheet/system configurations and the applicable test certificate. Test certificates may only apply to a specific product, meaning that the above-mentioned system is not necessarily part of the certified scope. Different R classes can be achieved by changing the sealing coat and blinding material.

SR FLOOR WHG AS 01

Conductive blinded coating

Conductive and chemical-resistant coloured flow coating system, approved under the German Federal Water Act (WHG).

Application

- Potentially explosive atmospheres
- Collecting basins
- Storage areas

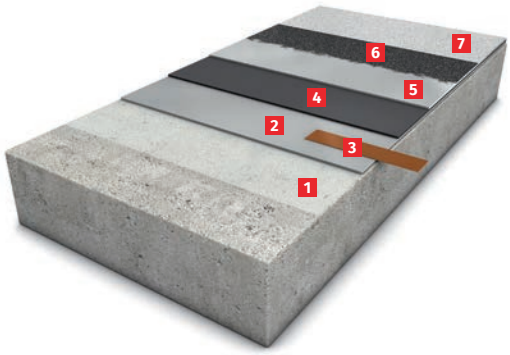
Property profile

- Anti-slip surface
- Crack-bridging
- Conductive

Test certificates *

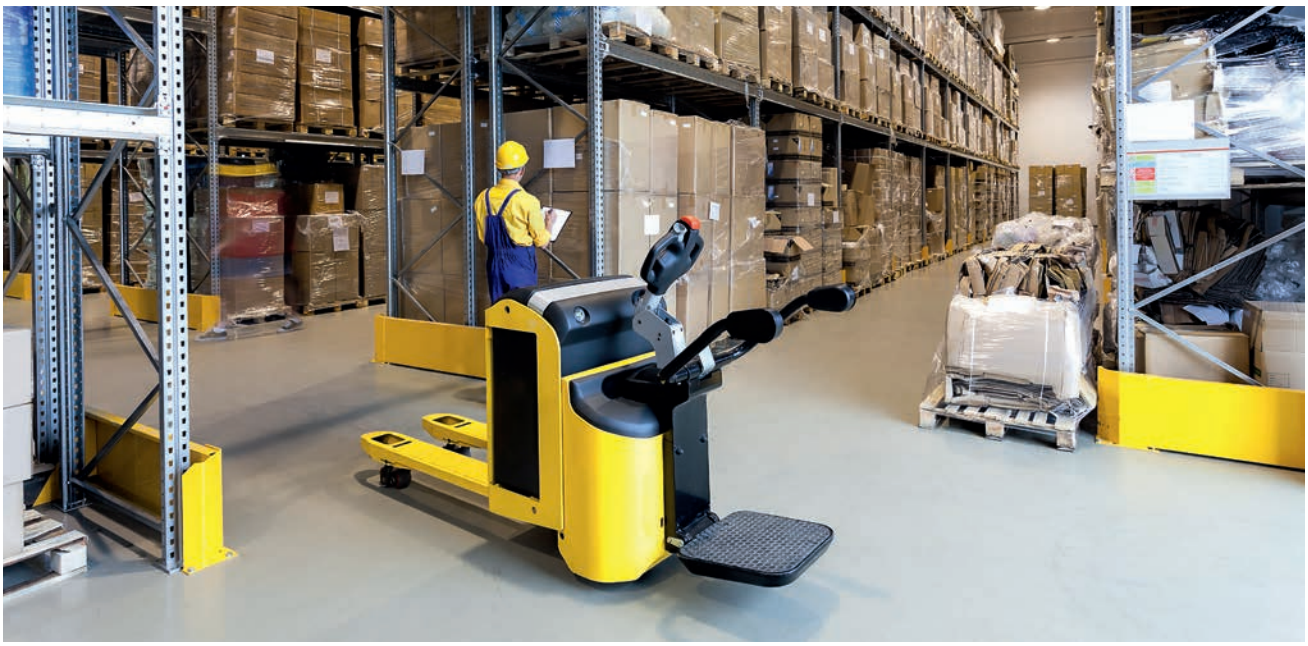
- Fire class B_{fl}-s1
- Slip resistance R 12
- Chemical resistance list
- Emissions test
- Crack bridging test
- Trafficability test

System layer thickness:
> 3 mm



Structure **	Product/product details		Application
1 Primer	Epoxy GL 100	p. 40	~ 0.30 kg/m²
Scratch coat (optional)	Epoxy GL 100	p. 40	~ 0.50 kg/m²
	+ filler e.g. Selectmix 01/03	p. 58	~ 0.50 kg/m²
2 Flow coating	Epoxy WHG Color	p. 53	~ 1.60 kg/m²
3 Earth connection	Copper strip	p. 55	~ 0.10 m/m²
4 Transv. cond. layer	Epoxy Conductive	p. 54	~ 0.15 kg/m²
5 Flow coating	Epoxy WHG Color AS	p. 52	~ 0.80 kg/m²
6 Blinding	ESD material coarse (SIC 04)	p. 63	~ 4.00 - 6.00 kg/m²
7 Sealing coat	Epoxy WHG Color	p. 53	~ 0.60 kg/m²

** Different structure to AbZ certificate



* For more detailed information, refer to the currently valid Technical Data Sheet/system configurations and the applicable test certificate. Test certificates may only apply to a specific product, meaning that the above-mentioned system is not necessarily part of the certified scope. Different R classes can be achieved by changing the sealing coat and blinding material.

Safety-relevant detailed solutions

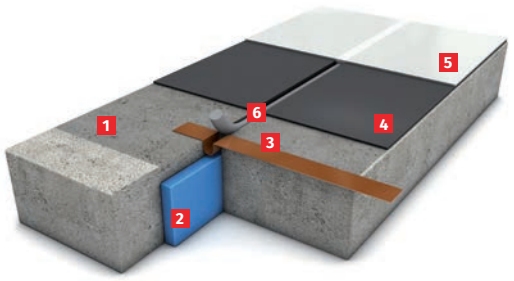
System enhancements for special applications

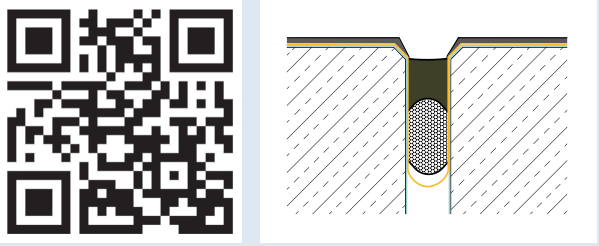

18V

Expansion joint with earthing elements

Installing the earthing elements

The expansion joints of large floor areas in particular can quickly become a problem when creating a conductive floor system. With its system for expansion joints, Remmers offers the perfect solution for this. The copper strands can be easily integrated into the expansion joints at the specified intervals, thus ensuring that the floor coating is conductive over the entire area.





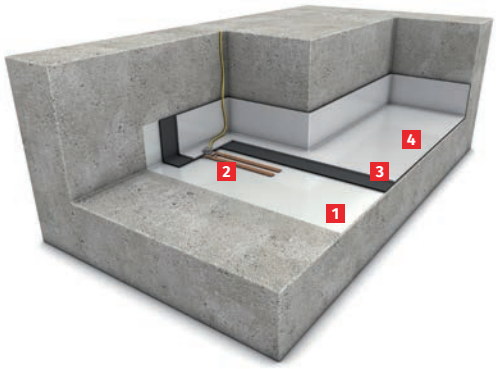
Structure	Product
1 Primer	Epoxy resin primer
2 Insulating edge strips	
3 Earth connection	Copper strip
4 Transv. cond. layer	Epoxy Conductive (LE)
5 Flow coating	ESD/AS product
6 Expansion joint	Round cord

Remmers Conductivity Kit

For the discharging of electrostatic charges in flooring – earthing point on the floor

The Remmers Conductivity Kit is the perfect complement to systems for highly sensitive areas. The use of the Conductivity Kit makes it almost impossible to tear off the copper strips and thus provides additional safety in the system.

The total number of connection points depends on the size and geometry of the surface. A maximum spacing of the copper strips of two earthing points per 100 m² is recommended, with the connection points located in the immediate vicinity of the earth connection and close to the wall.

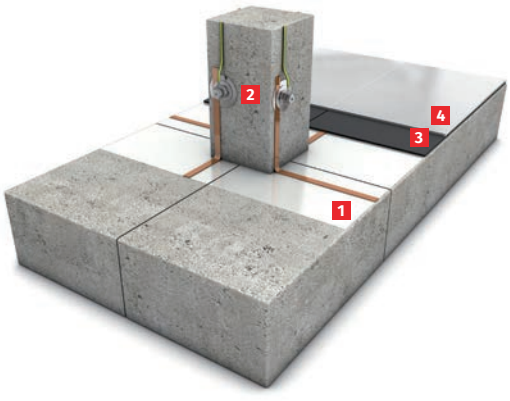


Structure	Product
1 Primer	Epoxy resin primer
2 Earth connection	Remmers Conductivity Kit
3 Transv. cond. layer	Epoxy Conductive (LE)
4 Flow coating	ESD/AS product

Pillar with earthing elements

For the discharging of electrostatic charges in flooring – earthing point on a pillar

In large halls, the problem of suitable earthing options for large-format floor panels quickly arises. Remmers has the ideal solution for this – and it's a simple one too. By means of earthing points on the support pillar and the base plates connected with copper strands, all electrostatic charges of the adjacent base plates can be dissipated via the connection to the earth compensation potential.



Structure	Product
1 Primer	Epoxy resin primer
2 Earth connection	Remmers Conductivity Kit
3 Transv. cond. layer	Epoxy Conductive (LE)
4 Flow coating	ESD/AS product

* For more detailed information, refer to the currently valid Technical Data Sheet/system configurations and the applicable test certificate. Test certificates may only apply to a specific product, meaning that the above-mentioned system is not necessarily part of the certified scope. Different R classes can be achieved by changing the sealing coat and blinding material.

You can find information about cleaning and maintenance here or online at www.remmers.com

Cleaning and care

Maintaining value through proper and regular care

Why is care and maintenance so important?

Proper and regular maintenance protects the floor system and ensures that its value is maintained for a long time. This preserves the appearance of the floor and significantly extends its useful life. Similarly, cleanliness is essential in an AS or ESD area, because dirt and dust have an insulating effect on the floor and prevent it from carrying out its essential task of discharging the load into the floor. Care must also be taken to use special cleaners for ESD and AS floors. They must not leave a film on the surface, otherwise the function of the floor will be impaired.

To support this ongoing process of cleaning, preventive measures should be taken and cleaning specialists consulted at the planning stage. We will be happy to put you in touch with appropriate specialists and send you our cleaning and maintenance instructions.

Primer products

Primers, mortar resins and levelling/base coats

Epoxy ST 100
Transparent priming and mortar resin

Epoxy MT 100
Fast-acting primer for slightly damp substrates

Epoxy GL 100
Transparent priming and mortar resin in systems subject to approval

Epoxy Primer PF
Pigmented primer and base layer

Epoxy BS 2000
Water-based, pigmented primer

Epoxy BS 4000
Water-based, pigmented levelling layer and base coat

Epoxy ST 100

Transparent priming and mortar resin

Range of use	■ Primer, bonding layer, levelling layer ■ Producing compression-resistant mortars, flow coatings ■ Base layer for blinded coatings
Property profile	■ High mechanical durability ■ High chemical durability ■ Good penetration ■ Free from plasticisers, nonylphenols and alkylphenols ■ Physiologically safe in the reacted state ■ Can be used as a primer without subsequent blinding under Remmers PU and EP coatings

Quantity per pallet	**168**	**120**				
Packaging unit	**1 kg** MCB	**2.5 kg** MCB	**10 kg** Tin bucket	**25 kg** Tin bucket	**240 kg** Drum	**720 kg** Drum
Container code	01	03	11	26	71	70
Art. no.						
1160			■	■	■	■
6361	■	■				
720 kg drums on request						

clear

System application	**page**
TX TECH 4030	14
TX TECH 4020	15
SL TECH 4010	16
SL TECH 4040	17
SL FLOOR ESD 01	18
SL FLOOR AS 01	26
SL TECH 4060	27

Epoxy MT 100

Fast-acting primer for slightly damp substrates

Range of use	■ Primer, bonding layer, levelling layer for slightly damp substrates ■ Producing compression-resistant mortars, flow coatings ■ Base layer for blinded coatings
Property profile	■ Substrate-tolerant up to 6% residual moisture (CM method) ■ Good adhesion on weakly absorbent substrates ■ Quick setting/overcoating ■ Full hardening from +5 °C ■ High mechanical durability ■ High chemical durability ■ Free from plasticisers and nonylphenols ■ Physiologically safe in the reacted state ■ Can be used as a primer without subsequent blinding under Remmers PU and EP coatings

Quantity per pallet	**168**	**120**		
Packaging unit	**1 kg** MCB	**2.5 kg** MCB	**10 kg** Tin bucket	**25 kg** Tin bucket
Container code	01	03	11	26
Art. no.				
0936			■	■
6362	■	■		

clear

Epoxy GL 100

Transparent priming and mortar resin in systems subject to approval

Range of use	■ Primer, bonding layer, levelling layer ■ Primer in the system SL Floor WHG (AbZ Z-59.12-302) ■ Primer in the system SL Floor WHG AS (AbZ Z-59.12-303) ■ System component in TÜV PROFICERT-product interior certified systems (707106482-1, -2, -3, -4)
Property profile	■ High mechanical durability ■ High chemical durability ■ Good penetration ■ Free from plasticisers, nonylphenols and alkylphenols ■ Physiologically safe in the reacted state ■ Can be used as a primer without subsequent blinding under Remmers PU and EP coatings

Quantity per pallet		
Packaging unit	**10 kg** Tin bucket	**25 kg** Tin bucket
Container code	11	26
Art. no.		
1427	■	■

clear

System application	page
SL FLOOR WHG AS 01	28
SR FLOOR WHG AS 01	29

Epoxy Primer PF

Pigmented primer and base layer

Range of use	■ Pigmented primer, levelling layer ■ Base layer for blinded coatings
Property profile	■ High mechanical durability ■ Excellent adhesion to concrete and cement screed ■ Free from plasticisers, nonylphenols and alkylphenols ■ Physiologically safe in the reacted state ■ Can be used as a primer without subsequent blinding under Remmers PU and EP coatings

Quantity per pallet			
Packaging unit		**12 kg** Tin bucket	**30 kg** Tin bucket
Container code		13	31
Art. no.			
1224	silver grey	■	■
1225	light grey	■	■
1226	neutral	■	■

System application	page
TX FLOOR AS 02	24
TX FLOOR AS 01	25

silver grey

light grey

neutral

Epoxy BS 2000

Water-based, pigmented primer

Range of use	■ Primer in Remmers WDD systems ■ Bonding layer on old coatings and ceramic coverings ■ System component in TÜV PROFICERT-product interior certified systems (707106482-1, -5)
Property profile	■ Excellent adhesion on many substrates ■ Water vapour diffusible ■ Free from plasticisers, nonylphenols and alkylphenols ■ Physiologically safe in the reacted state

Quantity per pallet		**200**			
Packaging unit		**1 kg** Tin bucket	**5 kg** Tin bucket	**10 kg** Tin bucket	**25 kg** Tin bucket
Container code		01	06	11	26
Art. no.					
6001	pebble grey	■	■	■	■
6002	silver grey	■	■	■	■
6005	light grey	■	■	■	■
6006	stone grey	■	■	■	
6009	basalt grey	■	■	■	■

System application	page
TC FLOOR WDD AS	23

pebble grey

silver grey

light grey

stone grey

basalt grey

Epoxy BS 4000

Water-based, pigmented levelling layer and base coat

Range of use	■ Primer in Remmers WDD systems ■ Levelling and base layer in Remmers WDD systems ■ System component in TÜV PROFICERT-product interior certified systems (707106482-1, -5)
Property profile	■ Highly fillable ■ Ideal base for even flake coatings ■ Water vapour diffusible ■ Freeze/thaw resistant ■ System tested against backfacing water ■ Free from plasticisers, nonylphenols and alkylphenols ■ Physiologically safe in the reacted state

Quantity per pallet			
Packaging unit		**10 kg** Tin bucket	**25 kg** Tin bucket
Container code		11	26
Art. no.			
6321	pebble grey	■	■
6322	silver grey	■	■
6323	light grey	■	■
6320	special colours > 200 kg	■	■

System application	page
TC FLOOR WDD AS	23


pebble grey


silver grey

light grey


special colours

Products for ESD/AS systems

Textured and hard grain coatings, conductive and durable coatings

Epoxy TX Color ESD
Pigmented, ESD-compliant textured coating

Epoxy SIC Color ESD
ESD hard grain coating

Epoxy ESD Color 2K
ESD-compliant coating

Epoxy ESD Color 3K
ESD-compliant coating

Epoxy AS Color
Conductive coating

PUR Uni Color AS
Tough conductive coating

Epoxy WHG Color AS
Conductive, chemically resistant, crack-bridging coating

Epoxy SIC Color
Hard grain coating

PUR Aqua Top ESD

Aqueous ESD sealing coat

Range of use	■ Sealant in conductive or ESD-compliant systems
Property profile	■ Pigmented ■ Conductive/ESD-compliant ■ UV stable ■ Matt

Quantity per pallet		
Packaging unit		**16.5 kg** Tin bucket
Container code		17
Art. no.		
6696	special colour PG I	■
6697	special colour PG II	■
6698	special colour PG III	■

Please note:
Only the following RAL colours are available in the respective price groups (PG):

Price group I:
1001, 1002, 1011, 1014, 1019, 3009, 7000, 7001, 7004, 7005, 7008, 7011, 7012, 7015, 7016, 7021, 7022, 7023, 7024, 7030, 7031, 7032, 7033, 7035, 7037, 7038, 7039, 7040, 7042, 7043, 7044, 7045, 7046, 7047, 9011, 9017
Price group II:
1003, 1004, 1005, 1012, 1021, 1023, 1032, 1034, 2000, 3005, 3007, 3011, 3013, 3014, 4009, 5005, 5008, 5012, 5014, 5015, 5017, 5019, 5023, 5024, 6010, 6011, 6019, 6021, 6027, 6034, 8004, 8019, 8023
Price group III: (other RAL colours available on request)
1006, 1018, 1028, 2001, 2010, 3000, 3002, 3003, 3016, 3020, 5002, 5007, 5009, 5010, 5018, 5021, 6001, 6002, 6016, 6017, 6024

special colours

System application	page
SL TECH 4040	17
SL TECH 4060	27

Epoxy TX Color ESD

Pigmented, ESD-compliant textured coating

Range of use	■ Textured coating
Property profile	■ Conductive/ESD-compliant ■ Slip-resistant ■ High mechanical durability ■ High chemical durability ■ Physiologically safe in the reacted state

Quantity per pallet		
Packaging unit		**25 kg** Tin bucket
Container code		26
Art. no.		
6665	special colours > 100 kg	■

special colours

System application	page
TX TECH 4030	14

Epoxy SIC Color ESD

ESD hard grain coating

Range of use	■ Textured hard grain coating ■ Conductive textured coating
Property profile	■ Slip-resistant ■ Conductive/ESD-compliant ■ Wear resistant ■ High mechanical durability ■ High chemical durability ■ Physiologically safe in the reacted state

Quantity per pallet		
Packaging unit		**25 kg** Tin bucket
Container code		26
Art. no.		
6838	special colours > 100 kg	■

special colours

System application	page
TX TECH 4020	15

Epoxy ESD Color 2K

ESD-compliant coating

Range of use	■ Flow coating for ESD protected areas
Property profile	■ Conductive/ESD-compliant ■ High mechanical durability ■ High chemical durability ■ Suitable for hand pallet trucks and industrial trucks ■ Physiologically safe in the reacted state

Quantity per pallet		
Packaging unit		**25 kg** Tin bucket
Container code		26
Art. no.		
6686	special colours > 100 kg	■

special colours

System application	page
SL TECH 4010	16

Epoxy ESD Color 3K

ESD-compliant coating

Range of use	■ Flow coating for ESD protected areas
Property profile	■ Conductive/ESD-compliant ■ High mechanical durability ■ High chemical durability ■ Can be made slip-resistant ■ Suitable for hand pallet trucks and industrial trucks ■ Physiologically safe in the reacted state

Quantity per pallet		
Packaging unit		**30 kg** Tin bucket + sack
Container code		31
Art. no.		
6666	pebble grey	■
6668	special colours > 150 kg	■

pebble grey

special colours

System application	page
SL FLOOR ESD 01	18

Epoxy BS 3000 AS

Conductive, pigmented sealing coat

Range of use	■ Sealing coat in conductive systems
Property profile	■ Water vapour diffusible ■ Silk gloss ■ Conductive ■ Physiologically safe in the reacted state

Quantity per pallet			
Packaging unit		**10 kg** Tin bucket	**25 kg** Tin bucket
Container code		11	26
Art. no.			
6394	special colours > 100 kg	■	■

special colours

System application	page
TC FLOOR WDD AS	23

Epoxy TX Color AS

Pigmented, conductive textured coating

Range of use	■ Textured coating
Property profile	■ Slip-resistant ■ Conductive ■ High mechanical durability ■ High chemical durability ■ Physiologically safe in the reacted state

Quantity per pallet		
Packaging unit		**25 kg** Tin bucket
Container code		26
Art. no.		
6816	special colours > 100 kg	■

special colours

System application	page
TX FLOOR AS 02	24

Epoxy SIC Color

Hard grain coating

Range of use	■ Textured hard grain coating ■ Conductive textured coating
Property profile	■ Slip-resistant ■ Conductive ■ Wear resistant ■ High mechanical durability ■ High chemical durability ■ Physiologically safe in the reacted state

Quantity per pallet			
Packaging unit		**10 kg** Tin bucket	**25 kg** Tin bucket
Container code		11	27
Art. no.			
6841	pebble grey	■	■
6842	silver grey	■	■
6843	light grey	■	■
6840	Special colours > 135 kg		■


pebble grey


silver grey

light grey


special colours

System application	**page**
TX FLOOR AS 01	25

Epoxy AS Color

Conductive coating

Range of use	■ Electrically conductive coating
Property profile	■ Conductive ■ High mechanical durability ■ High chemical durability ■ Optional slip resistance (in system) ■ Suitable for hand pallet trucks and industrial trucks

Quantity per pallet			
Packaging unit		**10 kg** Tin bucket	**25 kg** Tin bucket
Container code		11	26
Art. no.			
6975	special colours > 100 kg	■	■

special colours

System application	page
SL FLOOR AS 01	26

PUR Uni Color AS

Tough conductive coating

Range of use	■ Electrically conductive coating
Property profile	■ Tough coating ■ Electrically conductive ■ Suitable for hand pallet trucks and industrial trucks ■ Physiologically safe in the reacted state

Quantity per pallet			
Packaging unit		**10 kg** Tin bucket	**25 kg** Tin bucket
Container code		11	26
Art. no.			
6789	special colours > 100 kg	■	■

special colours

System application	page
SL TECH 4060	27

Epoxy WHG Color AS

Conductive, chemically resistant, crack-bridging coating

Range of use	■ Conductive, chemically resistant, crack-bridging coating ■ Coating in the system SL Floor WHG AS (AbZ Z-59.12-303)
Property profile	■ Conductive ■ Static crack-bridging ■ High chemical resistance ■ Fire resistant ■ Suitable for hand pallet trucks and industrial trucks

Quantity per pallet			
Packaging unit		**10 kg** Tin bucket	**25 kg** Tin bucket
Container code		11	26
Art. no.			
1431	pebble grey	■	■
1432	light grey	■	■
1435	special colours > 100 kg	■	■

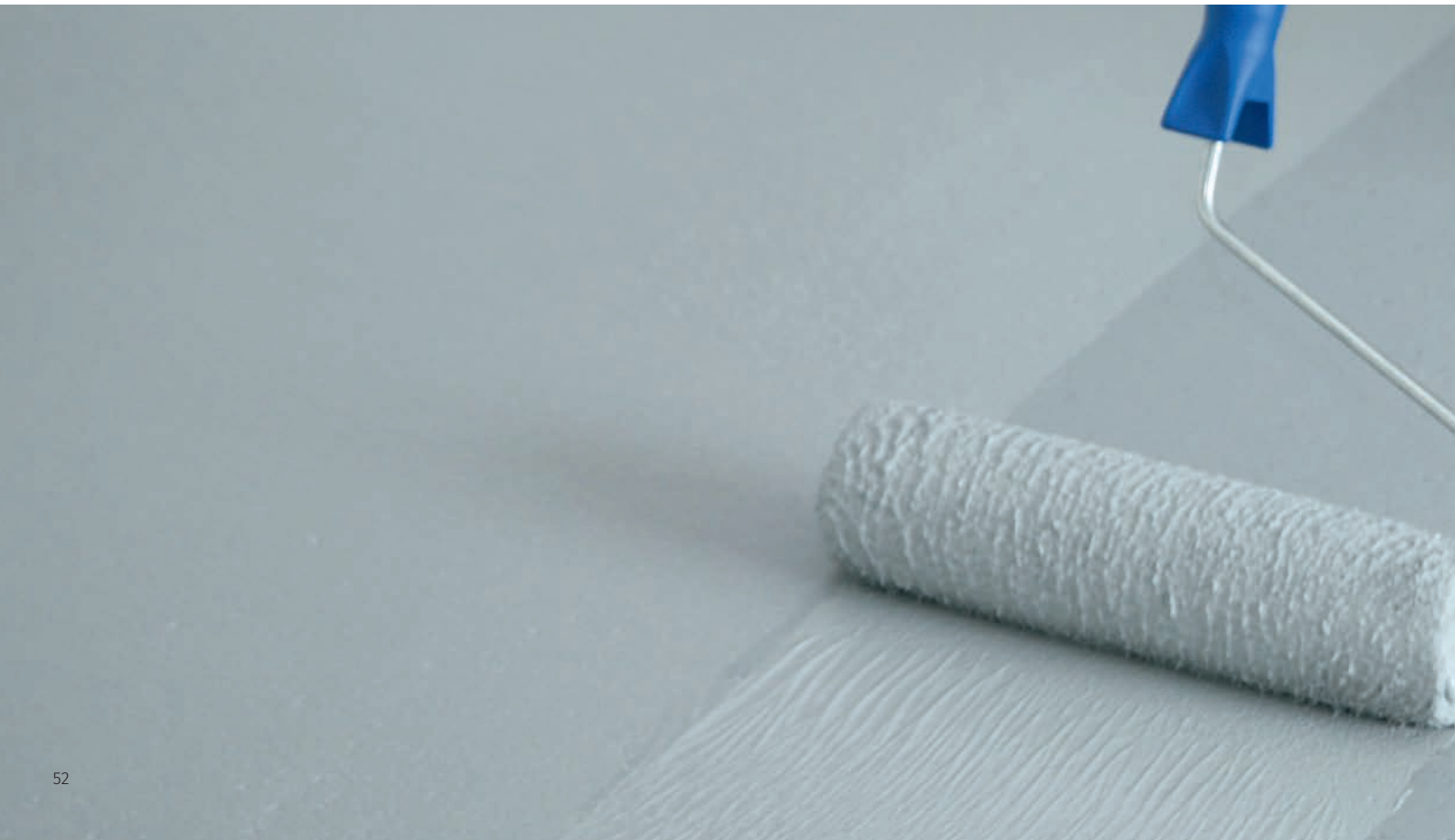
System application	page
SL FLOOR WHG AS 01	28
SR FLOOR WHG AS 01	29

pebble grey

light grey

special colours

REMMERS GmbH (Werk 4011)
Beschichtungssystem für Auffangwannen
Z-59.12-303
Polymer Institut



Epoxy WHG Color

Chemically resistant, crack-bridging coating

Range of use	■ Chemically resistant, crack-bridging coating ■ Coating in the system SL Floor WHG (AbZ Z-59.12-302)
Property profile	■ Static crack-bridging ■ High chemical resistance ■ Fire resistant ■ Suitable for hand pallet trucks and industrial trucks

Quantity per pallet

Packaging unit		**10 kg** Tin bucket	**25 kg** Tin bucket
Container code		11	26
Art. no.			
1425	light grey	■	■
1428	pebble grey	■	■
1429	special colours > 100 kg	■	■

System application	**page**
SR FLOOR WHG AS 01	29


pebble grey

light grey


special colours

REMMERS GmbH (Werk 4011)
Beschichtungssystem für Auffangwannen
Z-59.12-302
Polymer Institut

Epoxy Conductive

Water-based transverse conducting layer

Range of use	■ Transverse conducting layer in conductive Remmers systems ■ Transverse conducting layer in SL Floor WHG AS (AbZ Z-59.12-303)
Property profile	■ Electrically conductive (< 10 kΩ)

Quantity per pallet		
Packaging unit		**10 kg** Tin bucket
Container code		11
Art. no.		
6671	black	■

black

System application	page
SL TECH 4010	16
SL TECH 4040	17
SL FLOOR ESD 01	18
TC FLOOR WDD AS	23
TX FLOOR AS 02	24
TX FLOOR AS 01	25
SL FLOOR AS 01	26
SL TECH 4060	27
SL FLOOR WHG AS 01	28
SR FLOOR WHG AS 01	29

Epoxy Conductive LE

Water-based transverse conducting layer

Range of use	▪ Transverse conducting layer in conductive Remmers systems
Property profile	▪ Electrically conductive

Quantity per pallet		
Packaging unit		**10 kg** Tin bucket
Container code		11
Art. no.		
6701	black	■

black

System application	page
SL TECH 4010	16
SL TECH 4040	17
SL FLOOR ESD 01	18
TC FLOOR WDD AS	23
TX FLOOR AS 02	24
TX FLOOR AS 01	25
SL FLOOR AS 01	26
SL TECH 4060	27

Copper Tape

Self-adhesive copper tape

Range of use	▪ System component in electrically conductive systems ▪ Copper tape in the system SL Floor WHG AS (AbZ Z-59.12-303)
Property profile	▪ Self-adhesive

Quantity per pallet		
Packaging unit		**1× 25 m** Roll
Container code		02
Art. no.		
4551		■

System application
All ESD/AS coatings

Special and supplementary products

Blinding material, quartz sand mixtures, filler mixtures and additives

Remmers Conductivity Kit
Kit for 10 earthing points

Selectmix 01/03
Fire-dried quartz sand

Mica GHL 3/0
Mineral blinding material

Add 150
Polymer granules

Selectmix SBL DF
Filler mixture with special aggregate grading curve

Thinner V 101
Cleaning and thinning agent

Epoxy Quick Fix
Fast-reacting synthetic resin mortar

Epoxy CF 100
Set for frictionally coupled crack filling

Selectmix 01/03

Fire-dried quartz sand

Range of use	■ Filler for suitable Remmers systems
Property profile	■ Washed ■ Fire-dried

Quantity per pallet	**42**
Packaging unit	**25 kg** Paper bag
Container code	25
Art. no.	
4405	■

System application	page
TX TECH 4030	14
TX TECH 4020	15
SL TECH 4010	16
SL TECH 4040	17
SL FLOOR ESD 01	18
TX FLOOR AS 02	24
TX FLOOR AS 01	25
SL FLOOR AS 01	26
SL TECH 4060	27
SL FLOOR WHG AS 01	28
SR FLOOR WHG AS 01	29

Selectmix SBL DF

Filler mixture with special aggregate grading curve

Range of use	▪ Special filler for suitable Remmers epoxy resin systems
Property profile	▪ High degree of filling possible even at low layer thicknesses ▪ Generates very little dust

Quantity per pallet	70	63
Packaging unit	**10 kg** Paper bag	**15 kg** Paper bag
Container code	10	15
Art. no.		
6751	■	■

System application	page
TC FLOOR WDD AS	23

Selectmix 0/10

Filler mixture with special aggregate grading curve

Range of use	▪ Special filler for suitable Remmers systems ▪ Hollow cove mortar ▪ Repair mortar
Property profile	▪ Universal ▪ For achieving high strengths ▪ Easy to smooth and self-compacting

Quantity per pallet	52
Packaging unit	**10 kg** Plastic bucket
Container code	10
Art. no.	
6750	■

Remmers Conductivity Kit

Kit for 10 earthing points

Range of use	▪ For the discharging of electrostatic charges in flooring ▪ Kit for creating 10 connection points
Property profile	▪ Conductivity Kit consists of: 10 dowels S8 x 40, 10 hexagon nuts M6, 10 self-locking hexagon nuts M6, 10 washers Ø 55 mm, 10 washers Ø 30 mm, 10 hexagon socket screws M6, 10 cable lugs, 20 self-adhesive copper strands, 1 allen key, 1 SDS drill bit Ø 8 mm.

Quantity per pallet	
Packaging unit	**1 pcs** Box
Container code	01
Art. no.	
4933	■

Earthing Kit

System component in electrically conductive systems

Range of use	▪ Connection and inspection point with 2m conductive copper strip
Property profile	▪ Component in conductive Remmers systems

Quantity per pallet	**500**
Packaging unit	**1 pcs** Set in box
Container code	01
Art. no.	
6066	■

Add 150

Polymer granules

Range of use	▪ Polymer granules for producing slip-resistant sealants
Property profile	▪ Colour-neutral ▪ Easy to mix in

Quantity per pallet	**480**
Packaging unit	**0.25 kg** Can
Container code	83
Art. no.	
6660	■

Add 250

Polymer granules

Range of use	▪ Polymer granules for producing slip-resistant sealants
Property profile	▪ Colour-neutral ▪ Easy to mix in

Quantity per pallet	**480**
Packaging unit	**0.25 kg** Can
Container code	83
Art. no.	
6271	■

Mica GHL 3/0

Mineral blinding material

Range of use	▪ Targeted blinding for Remmers floor coatings
Property profile	▪ Creates surface texture

Quantity per pallet	**44**
Packaging unit	**2.5 kg** Plastic bucket
Container code	03
Art. no.	
6742	■

System application	page
SL TECH 4010	16
SL FLOOR ESD 01	18
SL FLOOR AS 01	26

ESD blinding, coarse (SIC 04)

Conductive hard material

Range of use	■ Blinding material in Remmers systems
Property profile	■ Electrically conductive ■ Dust-free ■ Abrasion-resistant ■ Grain size: 0.6 – 1.0 mm

Quantity per pallet	**40**
Packaging unit	**25 kg** Paper bag
Container code	25
Art. no.	
6673	■

System application	page
SR FLOOR WHG AS 01	29

ESD blinding, fine (SIC 03)

Conductive hard material

Range of use	■ Blinding material in Remmers systems
Property profile	■ Electrically conductive ■ Dust-free ■ Abrasion-resistant ■ Grain size: 0.25 – 0.45 mm

Quantity per pallet	**40**
Packaging unit	**25 kg** Paper bag
Container code	25
Art. no.	
6683	■

Thinner V 101

Cleaning and thinning agent

Range of use	▪ Universal solvent for thinning and cleaning reactive resins that have not yet reacted
Property profile	▪ Good cleaning action ▪ Good thinning action

Quantity per pallet	**360**	**84**	**50**	**24**
Packaging unit	**1 l** Tin canister	**5 l** Tin canister	**10 l** Tin canister	**30 l** Tin canister
Container code	01	05	10	30
Art. no.				
0978	■	■	■	■

Epoxy CF 100

Set for frictionally coupled crack filling

Range of use	▪ Frictionally coupled filling of cracks and dummy joints
Property profile	▪ Very fast setting ▪ Sets at low temperatures ▪ Good penetration

Quantity per pallet	**120**
Packaging unit	**1.5 kg** Complete set
Container code	01
Art. no.	
6089	■

Note: Set consists of 0.5 kg epoxy resin in mixing bag, 1.0 kg quartz sand, 10 screed clamps, 1 injection aid, 1 pair disposable gloves

Epoxy Quick Fix

Fast-reacting synthetic resin mortar

Range of use	■ Hollow and triangular coves ■ Filling and repairing missing and broken-out areas ■ Producing sills and transitions
Property profile	■ Pre-packaged set including primer ■ Fast setting ■ Sets at low temperatures ■ Easy to apply

Quantity per pallet	**33**
Packaging unit	**10 kg** Plastic bucket
Container code	10
Art. no.	
6272	■

Note: Set consists of 1.0 kg epoxy resin in mixing bag, 9.0 kg special filler, 1 brush and 1 pair of disposable gloves in mixing bucket

The Remmers Group: our expertise

Reliable, efficient and safe floor protection systems

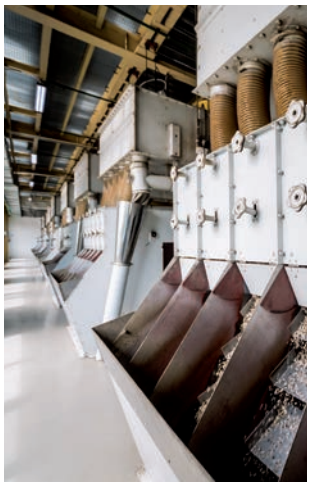
Functional, economical and decorative

Floor coatings for practically any application

From large production halls to retail spaces, recreation rooms and offices, we offer highly durable floor coatings for industrial or commercial use. Whether you are looking for an economical and practical solution, or something more decorative – we will help you find the perfect coating system. We offer a 360° all-round service: from the initial consultation to the execution of the work, all the way through to the finished floor.

Flooring for the food industry

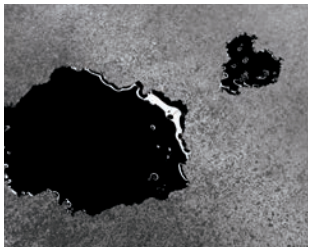
In the food processing industry, high demands are placed on the floor coatings used. The type of load that predominates depends on the particular production environment. In the production of dairy products, highly concentrated acids and aggressive media in particular attack the floor covering. In fish and meat processing, heavyweight transport containers exert high point loads on the floor. Large roasters and heavy ovens generate enormous mechanical and thermal stresses in confectionery and bakery production. The permanently wet conditions and alternating temperature loads found in beverage production and bottling require, above all, strong and slip-resistant floors. The PU concrete systems from Remmers are the perfect solution and can be flexibly adapted to accommodate the expected loads and stresses. For instance, the surfaces can be finished with a blinding material for texture, giving the floor slip-resistant properties that meet the applicable guidelines for workplaces.

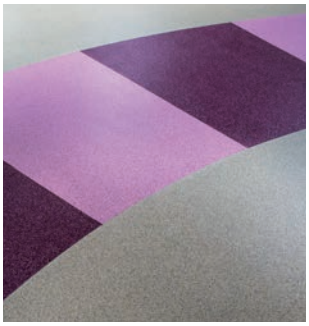


High performance industrial flooring

Floors that are not used in residential buildings or as roads fall into the category of industrial flooring. In addition to having a guaranteed load-bearing capacity, industrial floorings must exhibit long-term resistance against all sorts of stresses, all while requiring only minimal care and maintenance.

The multi-layered high performance industrial floors from Remmers were developed precisely to meet these needs. They offer long-lasting resistance against surface loads and point loads caused by warehouse goods, high-bay shelving and containers, as well as wheel loads from forklift trucks and other vehicles. They also ensure that surfaces exposed to chemicals do not become slippery.





Decorative design flooring

Decorative design flooring from Remmers offers a wealth of new design possibilities for architects, developers and companies. The floor coatings are made from polyurethane and epoxy resin, and every detail of their colour and texture can be customised. Single-colour flow coatings, exciting colour combinations or eye-catching flake effects – with the range of choices on offer, any floor can become a stylish focal point.

In commercial properties such as food retailers and fashion boutiques, as well as in highly visible areas such as offices, conference rooms and foyers, the decorative flooring systems offer high recognition value, optimum walking comfort and improved slip resistance. They are also easy to clean and create a pleasant atmosphere for working and leisure activities alike.

Car park floors and parking level coatings

Floor coatings in modern car park buildings have to withstand the mechanical and thermal stresses of daily use. In particular, small vibrations that are caused by cars driving over the floor can lead to fine cracks in the concrete. This makes it easier for harmful substances to enter the material, damaging the reinforcing steel and the concrete structure. Water and de-icing salts also put heavy strain on the flooring.

Remmers offers surface protection systems that have been specially tested for these extreme conditions and used successfully for many years. They can be found in new builds and renovation projects alike, where they are used to protect the concrete structure. No matter how large your floor surface, we will install your flooring as quickly as possible to enable smooth operation of your car park.

Good advice you can trust

The Remmers Group is a successful, medium-sized, family-run company based in Löningen, Germany. Since its inception in 1949, it has evolved from a one-man business into an internationally active group of companies – and this growth is down to much more than just luck.

Our success is underpinned by our systematic and methodical approach to our business activities which are built on three core tenets: innovation, continuity and expansion. Remmers now has an established presence in more than 40 countries worldwide and is a leading provider of premium products for building, wood and floor protection. The group develops and markets construction products and systems for every part of a building, from the basement to the roof. And for the special area of repair work in large-scale projects, Remmers Professional Planning has its own group of experienced experts on hand. This service is aimed in particular at companies and planning offices involved in civil engineering and the construction of administrative and other buildings.

Tailored solutions for new buildings and renovation projects

Individual concepts that comply with national and international guidelines

Precise analysis, competent advice and high-quality systems. Remmers Professional Planning is a reliable partner in many national and international markets. We work with a wide variety of clients across the industrial, trade and housing construction sectors, as well as in our special discipline, the preservation of historical buildings and monuments. Highly qualified experts from all over the world are on hand to help you with your construction projects at all times.

We understand the individual requirements of your industry. With four decades of experience in the project business, Remmers Professional Planning is a reliable partner for all aspects of repair work. Our services begin right from the initial analysis stage, e.g. taking samples and analysing them in the laboratory. The central element is the development of a specially tailored concept that takes all the business and construction aspects into account.

You can find out more about the pillars of the Remmers Group and its range of services here.

Remmers Professional Planning:
www.remmers-fachplanung.de
Bernhard Remmers Academy:
www.bernhard-remmers-akademie.de
Bernhard Remmers Institute for Analytics:
www.brifa.de

Subject to change. The current version of the applicable Technical Data Sheet is relevant for legal matters. Colour variations are possible. Global contacts: www.remmers.com/remmers-worldwide

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