



Crete SL 80 AS

Conductive PU concrete flow coating

Colour	Availability	
	Quantity per pallet	400
	Size / Quantity	19,5 kg 0,5 kg
	Type of container	Set Bag
	Container code	20 84
	Art. no.	
	6540	■
red	6851	■
green	6852	■
beige	6853	■
ochre	6854	■
grey	6855	■
Attention!		
For each of the set items, please order Crete Color Paste separately under its own article number (red: 685184, green: 685284, beige: 685384, ochre: 685484, grey: 685584)		
20 kg unit: 1 x 654020 + 0.5 kg Crete Color Paste		

Application rate See application examples

Range of use

- Electrically dissipative coating
- Self-levelling coating in systems exposed to chemical, thermal and mechanical stresses
- Base layer for interspersed coverings in systems subject to chemical, thermal and mechanical stresses

Property profile

- Dissipative / ESD-compliant
- High chemical resistance
- High mechanical resistance
- Water vapour diffusion capable
- Thermically resistant up to 80 °C
- Thermal shock loads up to 120 °C (depending on the system)
- Easy to clean
- HACCP-compliant

Characteristic data of the product

- **On delivery**

Density (20 °C)	1.92 g/cm ³ (4K mixture)
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- **Once fully cured**

Earth discharge resistance acc. to EN 1081 (three-point electrode)	< 10 ⁸ Ω
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)

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

Possible system products

- > **Copper Tape (4551)**
- > **Epoxy Conductive LE (6701)**
- > **Crete TF 60 (226867)**
- > **Crete FP (226860)**



Preparation

■ **Substrate requirements**

Only concrete screeds and bonded screeds primed with Crete TF 60 or Crete FP are permitted substrates. The substrate must be load-bearing, dimensionally stable, solid, free of loose parts, dust, oils, grease, rubber marks and any other substances that could interfere with adhesion. It must be primed so as to remove all surface pores.

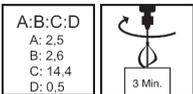
The tensile strength of the surface of the substrate must be at least 1.5 N/mm² on average (smallest individual value of at least 1.0 N/mm²), and the compressive strength must be at least 25 N/mm².

Concrete	max. 6 m% moisture
Cement screed	max. 6 m% moisture

■ **Substrate preparation**

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. Epoxy Conductive must be applied according to the current Technical Data Sheet as transverse conducting layer.

Production of the mixture



■ **Mixing**

Before mixing, shake component A **vigorously!**

Add all of the colour paste (component D) to component A.

Add all of the hardener (component B) to the base compound (components A and D).

Mix thoroughly with a slow-speed electric mixer (approx. 300 - 400 rpm).

Insufficient mixing is indicated by streaks forming.

When the mixture is ready, pour it into into a compulsory mixer using a side scraper shovel.

When coating small areas, the use of a compulsory mixer can be dispensed with and conventional mixing tools such as a Collomix stirrer can be used.

Add component C immediately **while stirring** and mix the compound for 3 minutes.

The mixing times must be strictly observed (timer).

When mixing, make sure that the mixture is free of lumps and homogeneous, so that non-dispersed fibres, e.g. those adhering to the stirrer, do not fall into the material.

Mixing ratio	2.5 : 2.6 : 14.4 : 0.5 parts by weight
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Immediately after preparation, pour the entire finished mixture (by scraping it out completely from the container) in narrow strips onto the previously prepared surface and spread using a suitable tool.

Directions



For professional users only!

■ **Conditions for use**

Temperature of the air and substrate: min. +10 °C to max. +20 °C.

Temperature of the material: +15 °C to +20 °C.

After application, protect the surface for at least 48 hours from 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)**

max. 10 minutes (including spiking, smoothing and scatteing flakes if applicable)

■ **Waiting time (+20 °C)**

Waiting times between the application of each coat: min. 16 hours and max. 48 hours.

If conditions on site require longer waiting times, the surface must be slightly sanded (until it turns white) before the following application.

■ **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

■ **Coating**

Pour the material on the prepared surface and spread using a suitable tool, such as a layer thickness trowel / gauge rake.

Immediately roll a spiked roller slowly over the surface (no more than one crosswise operation).

Application rate	8 - 12 kg/m ²
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■ **Base layer for blinded coatings**

Pour the material on the prepared surface and spread using a suitable tool, such as a layer thickness trowel / gauge rake.

Immediately roll a spiked roller slowly over the surface (no more than one crosswise operation).

Broadcast an excess of suitable silicon carbide or Ceramix Conduct 04/08 into the wet base layer.

Remove any loose, excess material after hardening.

Application rate	8 - 12 kg/m ²
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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.

To delimit the coated surface, sufficient anchoring cuts must be made (width and depth of the cuts is twice the thickness of the coating system).

The resulting surface texture is strongly influenced by the conditions on site and the application method. Therefore, surface texture is not covered by product liability.

PU concretes in general are functional floor coverings with low requirements with regard to appearance and are generally not colour-fast.

Even if the flooring is correctly installed, differences in colour, marks made during application, streaking and slight formation of pools cannot be excluded.

Due to the short reaction time, the coating operation must be well planned and prepared.

Only work with complete pack sizes. Do not use partial quantities.

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

Abrasive mechanical loads leave traces of wear.

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

Blinded coatings must be applied immediately to ensure the proper bonding of the blinding material.

In case of repairs on the surface or working up to existing surfaces, there will be a visible transition in appearance and texture.

The resistance to chemical substances must be assessed with regard to the temperature of the medium (see chemical resistance list).

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.

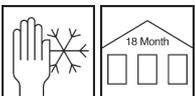
Tools / Cleaning

Layer thickness trowel, pin leveller, spiked roller, mixing equipment, compulsory mixer if necessary



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 in unopened, original containers in a cool, dry place protected from frost, component A has a shelf life of at least 18 months and components B and C at least 12 months.

Safety data / Regulations

For professional users only!
Further information concerning safety during transport, storage and handling as well as on disposal and ecology can be found in the latest Safety Data Sheet.

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. 140 g/l (2010).
This product contains < 140 g/l VOC.

VOC	
Kat.	A/j
2010:	140g/l
max.:	140g/l



Declaration of conformity



Remmers GmbH (CE)

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25 (CE); 25 (UKCA)

GBIII 183

EN 13813:2002

6540

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

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.