



BREATHABLE FLOORING SYSTEMS

**Products you can rely on:** Remmers stands for advanced, durable flooring systems. Our products are EN ISO 9001 certified to the highest standards and certified by independent test institutes. For example, we are the first manufacturer nationwide to offer fully VOC certified flooring systems which do not pollute the indoor environment and we were pioneers in the use of the ISO 14001 environmental management system.

**With us water  
can let off steam**



Individual

Decorative

Safe

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## So your problems dissolve into thin air

Water always finds a way – that is in the nature of things. This is impressively demonstrated at a blowhole in New Zealand, where water is forced up through the pores in the rock and escapes as a fine spray. To prevent this natural law causing fundamental problems with your floor, Remmers has developed an innovative flooring system which is in its element where there is rising moisture – e.g. due to lack of suitable or intact waterproofing. After installation architects and clients can breathe more easily thanks to these breathable flooring systems and the coatings can do the same. Instead of blistering floor coverings that break up, everything is sure to go smoothly. Which saves both time, money and is better for your nerves.

### 1. Which substrates are best for coating?

The basis of an ideally suited flooring system is an in depth analysis of the existing conditions. Breathable coatings can be laid on almost any substrate. A complete list can be found on page 12. Here are a few examples:



Cement screed    Concrete    Anhydrite screed    Magnesite screed    Ceramic flooring

### 2. What damage can be repaired without problems?

The type of substrate is one aspect. Its condition is often another. We consider both from the beginning. The right system can then be found immediately. The following are examples of damage which can easily be repaired with breathable flooring systems from Remmers:



Rough substrates    Residually damp substrates    Old coatings    Blistering    Voids and blemishes

### 3. What is the best method of preparation?

Any finished floor is only as good as its initial preparation. Remove loose particles, cement laitance, grease, oil, paint, blemishes and spalling – for maximum adhesion and durability of your new flooring. There are various options for substrate preparation dependent on the type, total area and damage. Your Remmers Technical Service Team will be pleased to advise you.



Cleaning, e.g. to remove dirt from non absorbent substrates    Blastcleaning, e.g. on soft substrates or to level rough substrates    Blastcleaning, e.g. to open the pore structure of dense substrate    Grinding / planing, e.g. to remove old non load bearing surface finish layers    Repair blemishes and spalling

### 4. Some examples of where rising moisture in the substrate must not cause problems

Where rising moisture can be expected, e.g. surfaces in contact with the ground, the breathable flooring systems from Remmers are the ecological, economic and reliable solution. We offer systems suitable for all environmental situations and requirement criteria: from non-slip, conductive or high mechanical load bearing to totally individual decorative design.



New buildings and developments (construction time reduction by installation on 'green' concrete)    Buildings and areas in contact with the ground (rising moisture present)    Production plants and warehouses    Underground and multi storey car parks    Decorative areas for exhibition halls, showrooms and retail outlets

### 5. There are many reasons for deciding on breathable flooring from Remmers. Here are the six most important:

Rising damp has no chance of moving upwards with Remmers.

**Working under pressure:** The breathable flooring systems from Remmers

► 04

**No need to worry:** Certified safety according to German regulations OS-8

► 05

**Be inspired:** Anything is possible in art – and in our decorative systems too!

► 06

**Time is money:** You save time with Remmers. Economic and reliable!

► 08

**For a healthy indoor environment:** Low emission floors complying with the latest strict VOC Requirements

► 10

**Sound from the beginning:** Starting with an in depth survey and analysis. Then a tailor made system solution

► 11

### 6. Your individual system could look like this: With the Remmers system designer

► 12

What stresses are expected? What is the substrate? And what particular performance or specifications have to be met? In response to these different questions, we can recommend a flooring system totally in accordance with your individual ideas and requirements – for a perfect result every time.

### 7. Remmers: the ideal partner for flooring

► 15

Where flooring is concerned, no one can beat us. We have learned our trade through and through. More than 1,000 employees ensure that we are always putting you at the forefront with our developments. Reliability and economy are always a prerequisite.

### 8. It makes a difference: Remmers customer service

► 16

We do not just talk about service, we provide it. After all, satisfied customers lay the foundations for future success. The right advice and support definitely always come first with us.

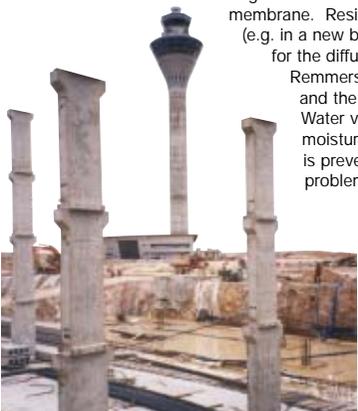
### 9. Innovation from tradition – for over 50 years

► 17

We rely on our solid reputation and sound knowledge. Building on our experience from over 50 years of our company history, we are continuously developing new products and making further advances.

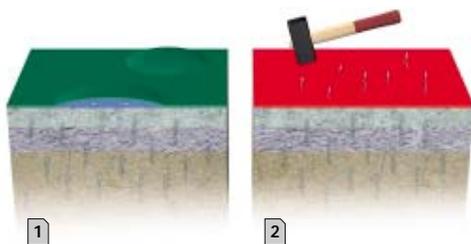
# Truly multi-talented: breathable flooring systems from Remmers

Extreme conditions demand extremely good performance. With the breathable flooring systems (SD value < 4 m) from Remmers, the basis is always correct, even on critical substrates. They show their strength by their use at weak points where rising damp can be expected due to surfaces in direct contact with the ground or lack of a waterproofing membrane. Residually damp substrates (e.g. in a new building) are also no problem for the diffusible flooring systems from Remmers – the flooring does not fail and the deadlines are not missed. Water vapour diffusion ensures that moisture can escape and blistering is prevented. This avoids problems and costly repairs.



Rising moisture does not increase the pressure on you, even with a tight schedule – thanks to the breathable flooring system from Remmers.

These innovative systems are quick and easy to install internally and externally on almost any substrate. By applying two layers in one day, the construction time can also be reduced. Their excellent flow characteristics and bloom free curing guarantees that everything goes smoothly –



[1] Rising moisture sooner or later leads to blistering. The floor has to have costly repairs made. [2] If a breathable flooring system from Remmers is used (SD value < 4 m), any moisture rising from below can easily escape and the floor can withstand maximum loads from above as required.

even where there is poor air circulation. A further advantage is the high mechanical load bearing capacity of these systems. And with their decorative designs, the breathable flooring systems look good anywhere.

To summarise, the high quality Remmers flooring systems can most definitely be said to be the right choice for many reasons, and not least because they more than comply with the very latest strict VOC requirements.



The flooring in the new multi storey car park at Dundrum Shopping Centre, Dublin has a new splendour and it also withstands very severe stresses, day in day out, lasting year in year out.

# Toughness tests passed: Mechanical loading according to regulation OS-8

Even those intending to fly have to keep their feet on the ground where safety is concerned. In addition to our own high quality standards, our breathable flooring systems have also been independently tested to the strict criteria of German regulations OS-8. It covers load bearing capacity to be achieved in multi storey and underground car parks.

With safety in the bag we can really take off. It is not just frequent flyers who know that some places have intensive traffic movements. To prevent accidental lift off wherever things have to

run smoothly, it is so important to have a floor that is suited to the individual conditions including the substrate and the anticipated loadings. From low to high pedestrian traffic through high mechanical loads from vehicular traffic to extreme point loadings etc. We have been providing reliable flooring in situations where there is total dependence on the floor being completed on time, with durable performance and all of this achieved cost effectively. Ask for our advice and we will be pleased to give you the best system recommendations for your particular situation.

## A breathable flooring system from Remmers can withstand all of these different stresses



■ Low stress, e.g. heavy pedestrian traffic  
■ Moderate stress, e.g. hand lift trucks  
■ Increased stress, e.g. dynamic stress from fork lift trucks  
■ Heavy stress, e.g. high point loading equipment and traffic



Taking the strain: the breathable flooring systems from Remmers

# Anything but monotonous: 32,742 individual colour design options

Ideas are free – creative design options are too. However you visualise your new floor: we lay it at your feet. To your own individual wishes and ideas. The design is freely selectable – the options almost unlimited (1,688 RAL colours or 1,950 NCS colours can be combined with the Remmers décor collection!). There is an art in making the right decision. So show your true colours!

Establish a focus with simple coloured seals, show off your artistic flair with inventive colour combinations or go for a casual look with flakes. A decorative floor with contrasting broadcast flakes give you two additional advantages: its appearance counterbalances any unevenness in the floor and dirt is less conspicuous. Whatever design you want is permitted and possible. The

practical advantages of this over bonded flooring are beyond question. Our systems are load bearing, durable and without unsightly joints, making them easy to clean and hygienic. They can form the basis of good design wherever a special ambience is wanted.

Our unique floors look good in any situation. They are universal for interior and exterior use on almost any substrate or on top of existing flooring, UV resistant, with a matt or gloss finish, and slip resistance (adjustable up to R 12 standard). A further plus point: compliance with the latest VOC requirements guarantees a healthy indoor environment (more about this on page 10).



Make up your own picture from the many and varied potential applications and combinations of our decorative, breathable flooring systems. Be inspired.



1,688 RAL colours



1,950 NCS colours

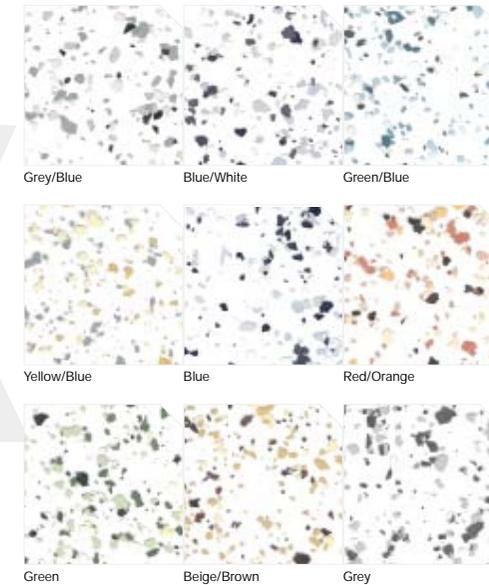


or



RAL colour charts are obtainable from: RAL Deutsches Institut für Gütesicherung und Kennzeichnung e.V.(www.RAL.de)

9 choices of coloured ArtiFlake



**32,742  
individual  
design  
options**

# When things have to move faster: Construction time reduction with a Remmers system

## Case study 1: Rapid installation despite adverse conditions

### Underground car park in Singapore

An impasse: There is stress and panic on the major site. At 30°C in the shade and 90% humidity it is not easy to keep a cool head in these difficult conditions.

They cannot afford extended waiting times. They need a flooring system that can be laid directly on the green concrete.



**Requirement:** The anticipated rising moisture must not cause blistering which would require costly repairs later on. And the future heavy loading from the constant traffic must be withstood without any problems.



**End result:** The real system strengths of Remmers show up. All of the requirements were met and the time lost was made up. The breathable flooring system is still standing up to the daily stresses with no problems.

## Case study 2: Smooth progress – even at low temperatures

### Warehouse floor in direct contact with the ground at a printing works in Dortmund

The prospects are poor: the construction phase is dragging on, the windows are not yet fitted and as for the flooring: residual moisture can be expected in the substrate because the warehouse floor is in direct contact with the ground. The worst thing: winter is about to arrive. Time is pressing and it is important to act quickly. To shorten the construction time and save costs, breathable, self-levelling flooring is needed.



**Requirement:** To prevent the work literally getting bogged down, the flooring must also have optimum flow properties – at a substrate and ambient temperature of only 10°C.



**End result:** Thanks to Remmers systems, the flooring was not the only thing to run smoothly despite the low temperatures. The deadlines were met and high heating costs during the installation were avoided.

## Case study 3: Without doubt the most cost effective result in the shortest time

### Large multi storey car park in Dublin, Ireland

A huge job: the 110,000 m<sup>2</sup> of car park deck surface has to be coated in minimal time and at a minimal material cost.

The economic considerations and time pressures demanded an alternative to the traditional quartz sand broadcast flooring.



**Requirement:** A non-slip (R 12 standard) coating which can easily be applied with a roller. There will be no labour intensive broadcasting of quartz sand followed by removal of the excess.



**End result:** Remmers supplied the best system solution. And the potential time consuming application of three full lorry loads of quartz sand was not necessary. No wonder the job was on time and on budget with such a reduction in labour and material requirements.

## Little effort to great effect: Exemplary installation of diffusible flooring

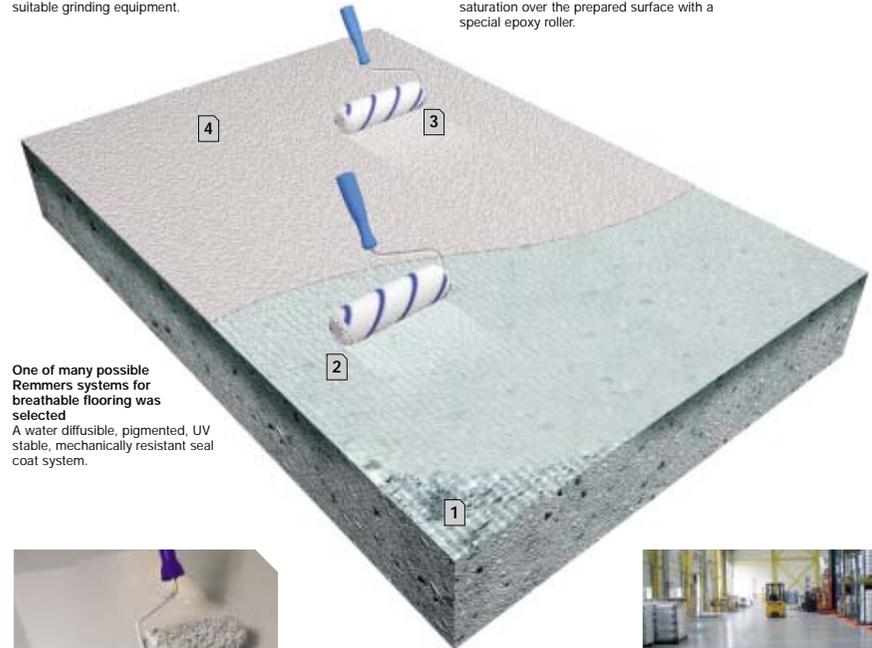
Remmers systems can make a good basis for every floor. In the blink of an eye. Which is great for tight deadlines and budgets. We can demonstrate in detail how your breathable flooring system can be in top form quickly and easily. So it is well prepared to face the tough conditions of daily use. A good surface appearance and with plenty of substance ....



**[1] The substrate is prepared**  
The existing floor must be clean and sound. A good result can be obtained by using suitable grinding equipment.



**[2] The primer is applied**  
The two part, water based Remmers epoxy resin Viscacid BS 2000, is spread evenly to saturation over the prepared surface with a special epoxy roller.



**One of many possible Remmers systems for breathable flooring was selected**  
A water diffusible, pigmented, UV stable, mechanically resistant seal coat system.



**[3] The finish coat is applied in one operation**  
When the primer has hardened, the surface is coated with two part, water based Remmers epoxy resin Viscacid BS 3000. It is again applied in a uniform thickness with a special epoxy roller.



**[4] The result is so versatile long term**  
Easy to apply. Breathable. Mechanically resistant. And all rapidly installed. Compliance with the VOC requirements

## Not just important for 'little' people: Compliance with the VOC requirements



Security through certified quality

A floor should not only be resistant to rising moisture or high stress, it should also be harmless to the indoor environment. Emissions from Volatile Organic Compounds (VOC) can pollute the air and damage health. Remmers manufacture and supply a complete VOC certified product range which meets the strict criteria of the Swiss AgBB\*.

Naturally this is extremely important in all indoor areas such as offices, storerooms, retail areas and show-rooms, production facilities, homes, children's nurseries and schools.



If the air is not polluted, the head is kept clear for important things.



The air is pure for a healthy working environment

In view of the fact that compliance with the VOC requirements will rightly become compulsory in the near future, opting for our products is sure to be a common sense decision in the long term. You will avoid high follow on costs for expensive upgrading in the future and have a better quality of life from the beginning.



All according to the strict criteria of the AgBB\* (Swiss Commission for Health Analysis of Building Products)



With our VOC certified products, Remmers again provides the basis for a fresh and unpolluted indoor environment



Everyone can breathe again: even if the weather is bad outside, the climate is good inside.

## Another good reason for selecting Remmers: Free floor condition analysis including individual system recommendation



**[1] Free floor condition analysis**  
All important data such as the nature of substrate and any existing damage is recorded.



**[2] Expert advice on the spot**  
Everything is covered using our detailed check lists.

Defined installation periods guarantee that you always keep on track. So deadlines are not missed and tight budgets are not exceeded.

### Our extra service:

We are happy to help you – in collaboration with highly experienced installation contractors – through the whole process. From condition survey through planning to completion of your flooring. We supply reliable and clear method statements and schedules, quality assurance and installation controls from one source.

Find out on the next pages how your individual Remmers flooring system can look.

Flooring is a science in itself. No one knows that better than us. So we are always happy to help you in your selection process. We offer tailor made systems which are ideally suited to meet your individual requirements. First we look at things in depth: with an extensive and detailed floor condition survey and analysis on the spot. Absolutely free – but definitely not for nothing!

On this basis, our Technical Service Team draw up a check list with you. It records all the important data such as nature of the substrate, possible damage and future requirements for the flooring. In our laboratory the floor samples are analysed using the latest technology. Based on the results and the system requirements, your professional Remmers Technical Service Team recommends the best system and ideal procedures for you. To avoid unwanted production downtimes in advance, we decide on the best installation schedule in consultation with you.



**[3] Precise determination from the start**  
The existing substrate floor samples are analysed in the laboratory.



**[4] Individual system recommendation**  
In the light of all of the factors such as the anticipated loading, deadlines and budget, the best flooring system is selected.

### Your advantages at a glance

- Quick, reliable and easy installation – even with rising moisture
- Universally usable on almost any substrate
- High mechanical load bearing capacity with certification under German regulation OS-8
- Adaptation of the flooring system to the individual conditions and the anticipated loading is possible
- Versatile design options due to unlimited choice of colour and design
- Resistant, durable, easy care and hygienic
- UV resistant finish, either matt or gloss
- Compliance with strict VOC requirements
- Construction time reduction possible by installing on damp or green concrete
- Very good flow characteristics, even at low temperatures
- Free floor condition survey and analysis
- Individual system recommendations to suit your individual project requirements
- Can be made conductive or non-slip
- Certified quality – test certificates are available

# With Remmers system design to achieve the ideal flooring system

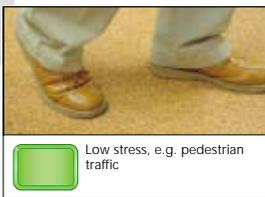
We are not satisfied unless you are. So we take individual wishes and requirements into account for every breathable flooring system. Three criteria are vital in the choice of a system. The crucial factors are firstly the anticipated stresses and secondly the existing substrate. In the third step, the specific requirements for your floor are defined: high mechanical resistance, decorative and non-slip or conductive etc.

That's how it goes: You reach your objectives fast with Remmers system solutions. For instance, if you

want to overcoat old tiles which will have to withstand higher stress in future and produce a non-slip (R 12 standard) top seal, we recommend system No. 6.

Your financial restraints and timetable are, of course, critical in the decision making process. Our tip: take detailed advice from Remmers professional technical service team.

## Step 1: What stresses must your new floor take?



## Step 2: What is the existing substrate?

Concrete, blastcleaned	
Concrete, ground and blastcleaned	
Cement screed, blastcleaned	
Cement screed, blastcleaned	
Anhydrite screed	
Magnesite screed	
Old epoxy coating	
Old tiles (ceramic flooring)	
Residually damp substrate	
Fresh concrete, blastcleaned	
Self-levelling screed	
Mastic asphalt (only internally without windows and direct sunlight)	
Old PU coating	
Damp substrate (standing water film/ permanently wet area)	

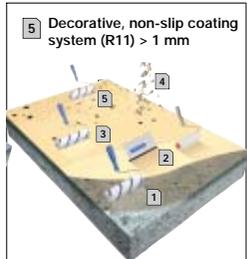
## Step 3: What special requirement must your breathable flooring meet?

1 Coloured top seal	2 Mechanically resistant flow applied coating approx. 1 mm	3 Mechanically highly resistant flow flooring approx. 2 mm	4 Decorative top seal < 0.5 mm
<b>[1]</b> Primer (Remmers BS 2000) with epoxy roller <b>[2]</b> Top seal (Remmers BS 3000 – matt or silk finish) with epoxy roller	<b>[1]</b> Primer (Remmers BS 2000 – colourless) with epoxy roller <b>[2]</b> Coating (Remmers BS 3000 – matt or silk finish with Remmers SelectMix SBL with serrated trowel. Then entrapped air removal with a spiked roller <b>[3]</b> Top seal (Remmers BS 3000 – matt or silk finish) with epoxy roller	<b>[1]</b> Primer (Remmers BS 2000 – colourless) with epoxy roller <b>[2]</b> Coating (Remmers BS 3000 – silk finish) with Remmers SelectMix SBL with serrated rubber squeegee. Then entrapped air removal with a spiked roller <b>[3]</b> Top seal (Remmers BS 3000 – matt or silk finish) with epoxy roller	<b>[1]</b> Primer (Remmers BS 2000) with epoxy roller <b>[2]</b> Roller applied coating (Remmers BS 3000) with epoxy roller <b>[3]</b> Contrasting broadcast with ArtiFlakes <b>[4]</b> Top seal (e.g. Remmers Sediment Sealer) with PU roller

For refurbishment of old PU coatings, please refer to our system brochure for industrial flooring for the food industry.

If you need flooring systems for permanently wet areas on wet substrates (standing water film), please refer to our system brochure for industrial flooring for the food industry.

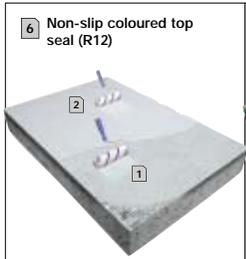
**a** Blast profile trace visible **b** Blast profile may be visible **c** Self-levelling layer necessary, e.g. with Remmers Optiplan  
Note: System modifications may be made due to our continual technical advances.



**5** Decorative, non-slip coating system (R11) > 1 mm

[1] Primer (Remmers BS 2000 - colourless) with epoxy roller  
 [2] Flow coating (Remmers BS 3000 silk finish with Remmers SelectMix SBL) with serrated trowel. Then air removal with a spiked roller  
 [3] Roller coating (Remmers BS 3000) with epoxy roller  
 [4] Contrasting broadcasting with Remmers ArtiFlakes  
 [5] Top seal e.g. Remmers ArtiTop m plus with epoxy roller

b
c
b
c
d



**6** Non-slip coloured top seal (R12)

[1] Primer (Remmers BS 2000 with Add 250) with epoxy roller  
 [2] Top seal (Remmers BS 3000 with Add 250 - matt or silk finish) with epoxy roller

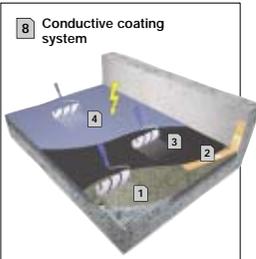
a
c
a



**7** Non-slip broadcast flooring (R13 V04)

[1] Primer (Remmers BS 2000 - colourless) with epoxy roller  
 [2] Floor coating (Remmers BS 3000 silk finish with Remmers SelectMix SBL) with rubber squeegee. Then air removal with a spiked roller  
 [3] Full saturation broadcasting with quartz sand 0.2 - 0.7 mm  
 [4] Top seal (Remmers BS 3000) with rubber squeegee and epoxy roller

c
d



**8** Conductive coating system

[1] Primer (Remmers BS 2000 - colourless) with epoxy roller  
 [2] Bonding of copper wires for potential equalisation  
 [3] Conductive layer W with epoxy roller  
 [4] Conductive top seal (Remmers BS 3000 conductive - matt or silk finish) with epoxy roller

c
c

for the food industry or ask Remmers Technical Service Department. They will be pleased to assist you.

**d** Suitable flooring systems can be found in the relevant system brochure of our industrial flooring documentation

# Six more reasons for co-operation: The Remmers performance spectrum

## Decorative flooring systems



So many colour and design options are impossible to imagine: there is no longer a great art in using the floor as part of the design thanks to our flooring systems. Be inspired and use our Decorative Systems Brochure.

## Non-slip flooring systems (particularly for the food industry)



100% hygienic and occupationally safe. We have developed many system solutions, particularly for the food processing industry, which meet all the specific food hygiene requirements and also the stringent criteria of the German employers' liability insurance associations. You will find more information in our System Brochure for the Food Industry.

## High mechanical load bearing systems



You can get a new start with us. No matter how high your standards: wherever heavy loads are present, we can be relied on to make up ground. From light pedestrian traffic to fork lift trucking and heavy point loadings. You will find more information in our System Brochure for Industrial Flooring.

## Conductive flooring systems



When the tension increases, it must not be caused by the floor. Our coatings safely prevent static and on request can also meet the latest European ESD guidelines. You will find more information in our System Brochure for Industrial Flooring.

## Chemical resistant flooring systems



With Remmers nothing leaches into the ground water. Our flooring systems always meet the strict conditions of § 19 of the German Water Resource Policy Law (WHG). You will find more information in our System Brochure for Industrial Flooring.

## Time saving flooring systems



Time is money: When timing matters, Remmers is way ahead. With our fast curing flooring systems we are always the best partner for those who cannot afford costly downtime. You will find more information in our systems brochures.

## Something else you can rely on: Our service

We do not just know our business. We also know how to be an all round partner to contractors, distributors, architects and designers, industrial and private end users and public authorities. Remmers provides a comprehensive service package for every link in the contractual chain. After all we can never be satisfied unless you are.

### Advice you can build on



The foundation for the right purchasing decision: professional advice.

Total customer service in a nutshell: with our Technical Service Department, Remmers is generally only a few hours away from any construction site. In consultation with our state of the art production and laboratory facilities, expert advice, smooth progression and fast, uncomplicated delivery are guaranteed.

### Quality training taken for granted



Our name is your guarantee: at the Bernhard Remmers Academy contractors receive regular intensive training.



Practice makes perfect: our theoretical knowledge is first put into practice on sample surfaces.



Certified competence: successful attendance at product training courses is rewarded with a trained applicator certificate.

### Investigation: The basis of our successful development



Real grass roots work: the detailed, project floor condition survey and analysis is the basis for an individual system recommendation.



From professional to professional: through dialogue with professionals, our products and systems are continuously improved.



Development expertise which is clear to see: over 100 laboratory personnel demonstrate our competence and our innovative products are clear to see.

### No question left unanswered



Personal and professional: our Technical Service Department can answer all of your technical questions.



Please visit our website at [www.remmers.co.uk](http://www.remmers.co.uk)

With us you save labour, time and money: we relieve the strain on designers, contractors and clients during specification, tendering and estimating stages.

## Where flooring is concerned, a good partner is the best basis



Regaining its former glory thanks to Remmers. Day by day, year by year: The Brandenburg Gate in Berlin.



Successfully refurbished and protected for the future with Remmers: The Magdeburg Millennium Tower.



A strong team: Our employees are fully trained to support you with advice and assistance.

Where a solid partnership matters, we are definitely the right contact. After all, innovative flooring systems have been one of the pillars of success with Remmers for more than three decades. As a market leading company with an extensive range comprising over 400 products, Remmers stands for fully integrated system solutions. Remmers sets global standards in floor protection and in building, façade and wood protection. We provide complete product systems from one source, from basement to roof. And our service you can really rely on. We see ourselves not only as a manufacturer of high quality products but also as a service provider and problem solver for all the specific requirements of the trade, contractors, specialist distributors, industrial end users, architects, designers and heritage conservators. We are the ideal partner for the entire building protection industry!

In constant dialogue with our customers, our in house research and development laboratories are continually developing new products and system solutions optimised for different applications and requirements. Our company has gained market leadership throughout Europe, particularly in building maintenance and heritage conservation. Our quality, service and customer friendliness are now appreciated by over 30,000 customers, and now also increasingly outside of Europe in the Asiatic and other global regions.

So Remmers is now internationally based with eleven subsidiaries in the Netherlands, Belgium, U.K., France, Poland, Russia, Hungary, Czech Republic, the former Soviet States, the Baltic States and Singapore. The hard work, commitment and enthusiasm of more than 1,000 highly qualified employees form the basis of a success story that had its beginnings more than 50 years ago – in the small town of Lönigen and in the name of the company's founder Bernhard Remmers, now known and valued worldwide.



Fine prospects: From our main production plant in Lönigen, Germany the Remmers name now goes all round the world – because unequalled service and outstanding quality speak for themselves everywhere.