

# THE IDEAL BASE FOR A SUCCESSFUL BUSINESS

Flooring Systems for the Food Industry



# THE IDEAL BASE FOR A SMOOTH OPERATION

A high performance standard is essential for success in all areas of the food industry. This starts with the right floor. It must be one hundred percent reliable, particularly in terms of hygiene and safety. Remmers provide individual systems with detailed solutions for the

requirements of all of the different sectors of the food industry. All of these flooring systems have at least one thing in common: The slip resistance rating is always precisely defined and achieved and bacterial growth is minimised from the outset. This high standard of

hygiene eliminates potential safety concerns. There is no need to worry about tight deadlines with Remmers fast curing systems. Interested? Then read on to find out more about how Remmers flooring systems can help to support your business.

## 1. Which substrates can be successfully coated?

The base of a new correctly matched flooring system is a detailed inspection and analysis of the existing substrate. Remmers flooring systems that have been specially developed for the food industry can be applied on almost any sound building substrate. A longer list is given on page 16. Typical examples include:



Concrete



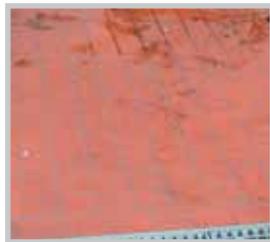
Cementitious screeds



Mastic asphalt



Damp concrete



Ceramic tiles

## 2. What is the best way to prepare?

A floor finish is only as good as its substrate preparation. Remove all loose and friable particles, cement laitance, oil, grease, existing paint etc and repair any surface defects or concrete damage – for good adhesion and durability of your new flooring. There are various ways to prepare the substrate, dependent on its type, total area and type of damage. Your Remmers technical service department will be pleased to assist you in selecting the most appropriate method of preparation, which could include one or more of the following:



Cleaning, e.g. for non-absorbent substrate



Grinding/sanding, e.g. for soft substrates or to smooth rough substrates



Grit blasting/blasting e.g. to open the pore structure of the substrate



Planing e.g. to remove non-load bearing layers



Patching of surface defects and spalling

## 3. Some examples of where safety is paramount.

The requirements for flooring in the food industry vary – as do the relevant Remmers product advantages. We have the right system for every type of working area and to meet all of the possible specification criteria. With Remmers you are laying the foundations for success from the beginning. Some examples of where our flooring products and systems make a firm base for success include:



Bakeries and confectionery production



Fish processing



Abattoirs and meat processing



Vegetable processing



Markets and cold room



*Dairies, cheese production, smokehouses and ready meal factories*     *Food retailing and storage facilities*     *Cafeterias, canteens and industrial kitchens*     *Egg and dairy product processing*     *Brewing and beverage industries*

**4. There are many good reasons for selecting a flooring system from Remmers. Here are seven of the most important:**

With flooring systems from Remmers safety is always a prerequisite: Our flooring materials easily withstand exposure to extreme heat, icy cold and aggressive chemicals. Their ultra hygienic surfaces give bacteria no chance to multiply. Their extensive colour range means that your floor can still look good despite being designed to function to its full potential. Additionally the flooring systems are so quick and reliable to install, that costly production down times, e.g. during floor refurbishment works, are simply avoided. The floors long-term durability and robustness can simply be relied upon. They are ideally suited for the job they have to do on your floor.

- Nice and clean:** The jointless, easy to clean flooring systems from Remmers ensure maximum hygiene ▶ 4
- So you can always stand your ground:** Safety in every step thanks to the tested system quality and adaptability to all slip resistant classes (DIN 51097, DIN 51130, EDIN 51131 and BS 8204) ▶ 6
- A good base even for exposure to heat, cold and chemicals:** Their high performance and excellent resistance allows smooth operations even under extreme conditions ▶ 8
- Always ready for installation – even if it is damp:** Economic and secure in application ▶
- No reason for costly production down times:** Floor refurbishment programmes with Remmers are completed really fast and on time 10
- Fully functional and wide colour range:** Combining functionality in performance with beauty in appearance ▶ 12
- Use Remmers experience for competent and practical recommendations:** Tailor-made systems are available to suit every type of substrate and every budget ▶ 14

**5. Your individual system could look like this: With the Remmers system designer.**

Every substrate is different. The same is true of the anticipated stresses. To allow for these differences, we supply a floor to match your own individual needs and requirements – For a perfect result. A free service from Remmers that pays.

**6. Remmers: your ideal partner for successful flooring.**

When it comes to resin flooring, no one is better than Remmers. We have learned our business over generations. More than 1,000 Remmers people work to make sure that you are always kept up to date. Reliability and economy are always our foundation.

**7. It makes a real difference: Remmers customer service.**

We do not only talk about good customer service, we insist on providing it. The corner stone of our success is our satisfied customers. Sound, practical cost effective advice and assistance always – without question our customers come first.

# HOW YOU CAN ELIMINATE POTENTIAL BACTERIA BREEDING GROUNDS FOR THE LONG TERM WITH REMMERS SYSTEMS

There is no room for weak points in the food processing industry. Even minor surface defects, e.g. at gullies, drains or floor to wall joints, can become a major problem over time. A significant difference from many other flooring suppliers, is that

Remmers has an extensive selection of detailing solutions, which enable our floors to achieve their maximum load-bearing capacity and hygiene. Another plus point: Remmers flooring systems are waterproof, chemically resistant, jointless and therefore very

easy to clean. This means that penetration by water or other liquids is prevented and substrate damage and bacterial infestations are avoided. Instead with Remmers you always have the best conditions for maximum hygiene.



*Dr. Wessling Institute and Laboratories.*

*Only satisfaction can grow here because moisture stays where it originates – on the surface. Remmers flooring systems meet the strictest European hygiene criteria. Tested by the renowned Dr. Wessling Institute in Germany.*

## Some examples of where weak points in a flooring system can put hygiene at risk

### 1. Keep liquids flowing hygienically: Improved detail solutions are required for the gullies and drains



*These conditions can allow infiltration underneath damaged old coatings.*



*Joints are open to attack and microbiological growth.*



*Good conditions for bacterial growth with broken edges.*



*Consequences of infiltration with spalling around the drains, which can put hygiene at risk.*

### 2. Not a good finish: Detailing solutions are required here for the floor to wall joints and coving



*Far from waterproof: porous floor to wall joint and poor coving.*



*Impact damage (e.g. due to heavy fork lift traffic) puts hygiene at risk.*



*This looks bad for health: Cracks and spalling.*



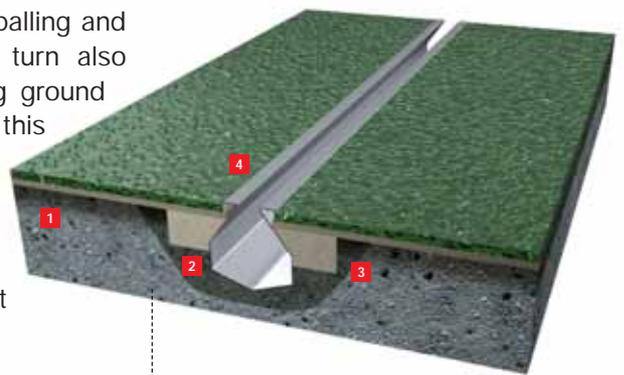
*Water infiltration leads to corrosion and damage.*

## System solutions for weakened floors: Detailing solutions from Remmers for total safety

### 1. Edge solutions for drainage details

Gullies, drains and sloping drainage channels are often difficult when it comes to maintaining hygiene. If water penetration, and therefore concrete attack and breakdown occurs for instance, due to poor adhesion of the floor finish to the metal edges, then the whole flooring system becomes unstable. This

leads to more concrete spalling and broken edges, which in turn also provide an ideal breeding ground for bacteria. Fortunately this potential safety hazard can be reliably overcome with the correct detailing solutions from Remmers designed for these difficult drainage details.



- 1 Priming with appropriate primer.
- 2 Watertight mortar.
- 3 Resin mortar.
- 4 Slip resistant coating.

Remmers flooring systems are also classified 'harmless to health' when cured, according to the strict criteria of the AgBB (German Committee for the Health Assessment of Building Products).

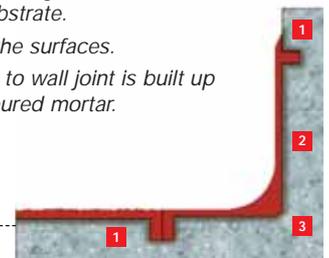


### 2. Solutions for floor to wall joint details

A great Remmers advantage: Water cannot penetrate behind the flooring. Rebates are formed at the ends of the coving to act as wedges. So penetration and damage cannot occur under or over the coving.



- 1 Before coating, a cut is made in the substrate.
- 2 Priming the surfaces.
- 3 The floor to wall joint is built up with coloured mortar.



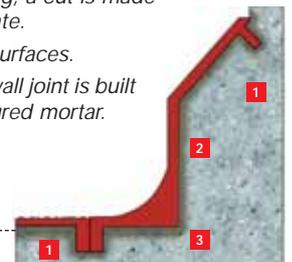
The ideal solution: The coving is smooth, watertight and chemically resistant. The danger of bacterial infestations where the cleaning machines cannot easily reach is minimised.

### 3. Solutions for the combined coving /skirting area details

Even when things are hectic, hygiene is never at risk with the Remmers floor to wall joint construction: Water penetration and under seepage or damage to the top are virtually impossible in normal use.



- 1 Before coating, a cut is made in the substrate.
- 2 Priming the surfaces.
- 3 The floor to wall joint is built up with coloured mortar.



A strong solution: The floor to wall joint construction is also extremely resistant to impact stresses – e.g. from pallet stacking. So hygiene is secure.

# YOU CAN'T AFFORD ANY SLIP-UPS WHERE SAFETY IS CONCERNED!

So it's a good thing that Remmers creates the right base for your business. With Remmers slip resistant flooring systems for the food industry, safety is assured with every step. Their tested qualities and performance conforms to the

strict conditions of the German Employers' Insurance Liability Association and provides all the different slip resistant classes required – from low (R 9) to high (R 13). Remmers flooring systems can also be adapted to the different V classes

(slip displacement factor). This is necessary if water or slippery liquids such as grease or oil are in daily use or there is a frequent risk of spillage. So no one and nothing can slip and accidents are prevented. All Systems are classified according to BS 8204.



BG tested  
Approved systems for all slip resistant classes are available

In areas where sharp knives or other implements are used, maximum safety with a non-slip floor is even more important. With a flooring system from Remmers your employees are safe.

## Hazards that compromise safety

Safety and stability is not only affected by water and liquids or oils and grease. Slippery tiles, broken edges, spalling concrete and other defects in a floor are also hazards, which can easily cause people to lose their balance. Here are a few typical examples of where safety is at high risk. These classic 'weak areas' often occur due to the weak or poor adhesion of a flooring system to the substrate. Both are good reasons for insisting on a flooring system from Remmers.



Slippery tiles have no slip resistance.



Worn, slippery coatings are not good.



Defective expansion joints and broken edges soon become trip hazards.



Missing tiles make these transitions a hazard.



Damaged transition areas ...



... result first in minor damage ...



... and then in dangerous broken up and hazardous surfaces.



Surface defects or blistering in a flooring system soon become a hazard.

## System solutions from Remmers – Safe down to the smallest detail

### Individual system solutions instead of a standard product approach

With such a complex and important subject as people's safety at work, every detail matters. The selection of the most suitable flooring and the right material for creating slip resistance in the surface (different materials, sizes and granulometry) depends not only on the intended use of the area but also on the footwear planned to be worn by the workers in that area.

Safety check: Our technicians use a unique piece of equipment to actually measure the coefficient of friction and therefore the slip resistance of your floors. Simply call for an appointment without any obligation. We look forward to helping you improve the safety of your floor.



- 1 Priming with appropriate primer.
- 2 Watertight mortar.
- 3 Slip resistant coating or screed.
- 4 Joint backing strip and elastic sealant.



Solutions for expansion joint detailing: A common weak point for developing damage can be eliminated.



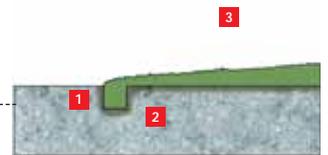
Typically 0.3 mm 0.7 mm 1.2 mm aggregate fractions are used

### For floor area transitions without corners, edges or other potential hazards

Remmers provides the ideal solution for continuous transitions – even where two different materials meet. This creates an area free from trip hazards by cutting and lowering the flooring to match precisely.



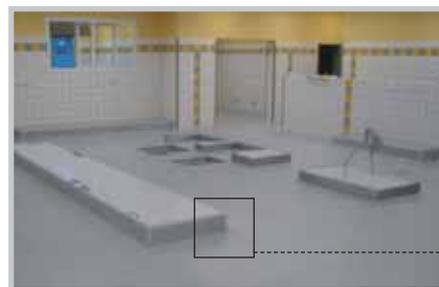
- 1 The substrate is cut before coating.
- 2 Priming with appropriate primer.
- 3 Slip resistant coating.



So that no-one trips, the difference in slip resistant classification between the two materials should not be too great but should be "reasonable", or more preferably change gradually.

### Engineered solutions for machine base details

Where heavy machinery is used, Remmers is very experienced in providing the right solution: With this solution for the base details, the coving construction is also extremely resistant. The carefully formed finish at the top has two advantages: Tearing is almost impossible and water or other liquids have no chance of penetrating.



- 1 The substrate is cut before coating.
- 2 Coloured mortar.
- 3 Two coats of Remmers primer.



This detail withstands the heaviest loads, e.g. from pallets and crates etc.

# COLD. HEAT. CHEMICALS:

## Flooring systems from Remmers withstand them all

Exposure and speed are necessary parts of everyday life in the food industry. So it is important for the environment to be right – starting with the right floor. Remmers have

developed special flooring systems which provide customized solutions to suit the different flooring industry requirements. Whether they have to withstand extreme cold, heat or

chemicals – Remmers flooring systems have one thing in common: They always perform and shine in terms of safety.

### Tough in the cold: even at -20 °C!

Many traditional flooring systems often get 'cold feet' in cold stores. Technically: The constant icy cold makes them brittle, sensitive to impact and therefore very susceptible to damage that soon compromises health and safety. With special flooring systems from Remmers, you can safely put these concerns on ice. These Remmers systems can be laid at low temperatures down to 3 °C.



*Even extreme cold conditions at -20 °C will not harm flooring systems from Remmers. There is also no need for concern about long down times or outages because these flooring systems are laid rapidly and cure extremely quickly.*

### Also ideal when things get hot

Heat exposure still leaves the flooring systems from Remmers cold: Even at normal exposure temperatures of up to 60 °C they are not adversely affected and will not become a safety hazard. They provide continued safety instead. Their VOC compliance guarantees that all of the flooring systems from Remmers are classified as completely harmless to health when cured. So neither health nor taste is affected or put at risk during food processing or preparation near flooring operations with Remmers systems.



*Remmers are always the right choice. Our flooring systems can withstand hot environments with no problems.*

For full information on these heat resistant Remmers Crete systems contact Remmers Technical Service Department.

## Remmers Crete: Even when heat exposure can be at 120 °C

The extremely hard wearing Remmers Crete polyurethane flooring systems were specifically developed for very stringent heat exposure requirements, e.g. for industrial kitchens or food processing areas. With heat resistance of up to 120 °C, they easily stand up to an "ordeal by fire". Hot things stand no chance of leaving a permanent mark. These innovative floors are also designed to accommodate simultaneous high mechanical stress.



*Extremely high heat resistance, high mechanical resistance and very good cleanability were the main considerations when Remmers Crete flooring was designed.*

## Do not experiment where safety is concerned – better select a chemically resistant flooring system from Remmers!

In food processing, aggressive chemicals including vinegar, lactic acid and others are frequently used. They can easily be spilled. Flooring systems from Remmers will still perform and look good if minor or even major spillages occur, thanks to their excellent chemical resistance.



*So you can also react calmly because this stress leaves no marks. Another plus point: Caustic alkalis or similar corrosive cleaning chemicals also have no effect and will not damage the surface.*

# RAPID PROGRESS TO A SAFE ENVIRONMENT:

## Fast and easy to achieve – even in the damp

Flooring in the food industry must not only meet very high initial hygiene standards but it must also be extremely easy to clean and 100% reliable to install. Remmers provides practical easily applied products and refurbishment systems. They are

also mechanically resistant and adaptable to all different slip resistance requirements, including all of the strict conditions of the German Employers' Liability Insurance Association. As outlined below, this optimum base for a

professional and safe working environment in your business is produced extremely quickly, with only four fast installation steps. There are also special systems that can be laid in just one day if required (see page 12).



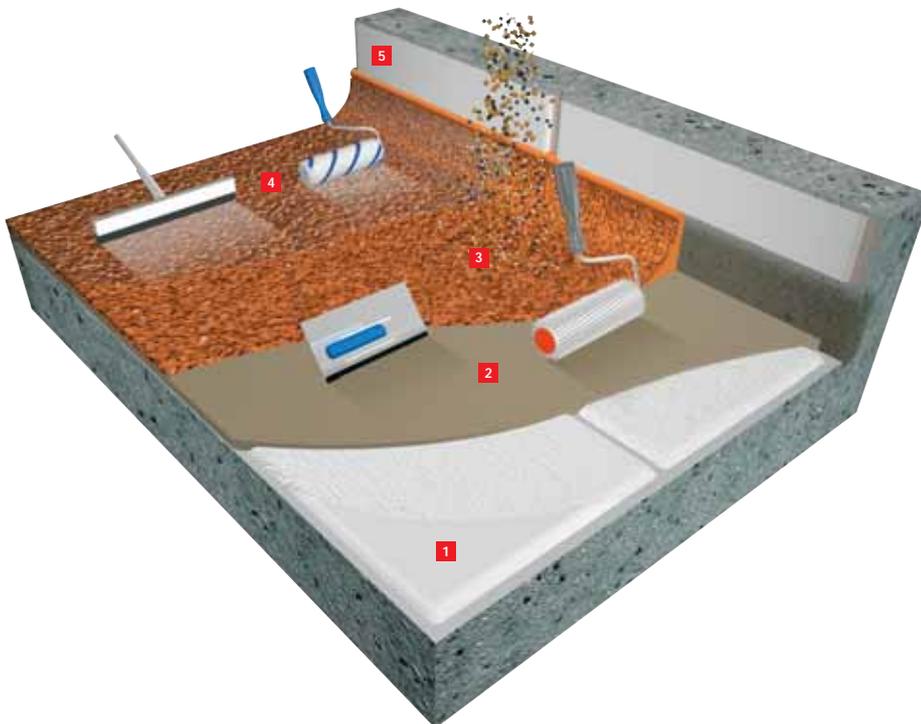
**The substrate is prepared**  
Ceramic tiled floors are thoroughly cleaned and abraded if necessary. This gives you the ideal substrate on which to apply the flooring system.



**The base resin is applied**  
The prepared surfaces are levelled in one operation with a filled, fast reacting Remmers epoxy coating with special adhesion promoters. This material is applied with a serrated trowel and is immediately rolled intensively with a spiked roller.



**The colour and slip resistance**  
After a short interval, the selected Remmers Ceramix coloured quartz aggregate is fully broadcast over the wet resin layer. After curing, any surplus aggregate not fully bonded is carefully removed by brush and vacuum.



**One of many Remmers systems for slip resistant flooring:**  
A slip resistant, mechanically resistant, two-layer coloured quartz broadcast flooring system on an existing load-bearing ceramic tiled floor.



**The surface is sealed**  
A fast reacting, chemical resistant Remmers epoxy top seal is applied with a rubber squeegee and special epoxy roller.



**The result reassures you with every step you take**  
Be safe by refurbishing ceramic floors with this slip resistant, fast reacting, two layer Remmers Ceramix system.

## Extremely good under extreme conditions: Remmers Epoxy FAS 100

Old cracked tiles, residually damp or green concrete, or concrete substrates that are continually washed can be a problem when refurbishing floors in the food industry: if the substrate is wet or not completely dry, the danger is obvious: If water is trapped under the floor finish, the flooring does not adhere.

The undesirable consequence can be blistering and peeling of the coating. With Remmers FAS 100

system, optimum adhesion of the system can be achieved – even under these extreme conditions – This is impressively demonstrated by our underwater test.

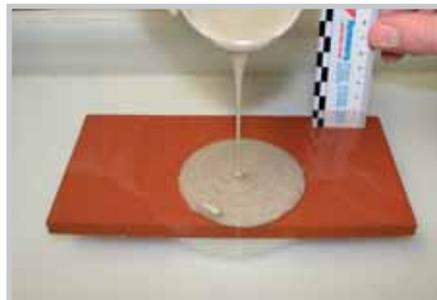
We fixed a slab with a smooth surface 2 cm below the water level in a basin. The primer was poured on. It had to stick to the slab and then withstand the most severe impact stresses. The result? Clearly shown in these pictures – perfect adhesion!



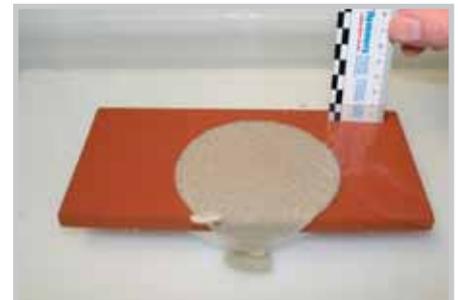
(1) The Remmers Epoxy FAS 100 based primer is poured onto the slab through the water.



(2) An important requirement for the successful applications: Primer and water should not react with one another.



(3) The substrate is obviously saturated with water. But the water under the primer is displaced.

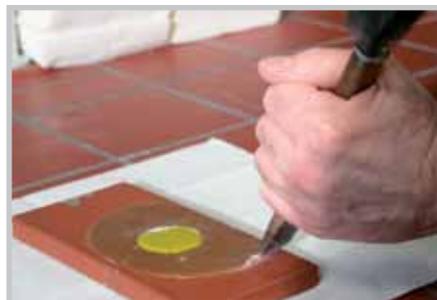


(4) Everything goes smoothly: The primer spreads uniformly and forms a strong chemical bond with the slab.

## An unbeatable combination

The reason for the excellent bond between primer and the slab is a chemical reaction and not – as with traditional flooring – suction adhesion. Special additives in the primer anchor themselves like hooks to constituents of the mineral substrate. After curing, they completely prevent the primer from being separated from the substrate. Force just breaks the substrate. As you can see, even then the primer is still firmly bonded. This has another great advantage, in that moisture can never infiltrate under the coating, even if mechanical damage occurs in the future. The

damaged area will not expand and grow (no additional peeling of the top coating).



(5) Where force is useless: After curing, primer and substrate are fused into one. The Remmers top (yellow) coating which follows adheres fully and securely also due to its chemical bond. Separation is impossible, even with considerable force: The bond holds ...



(6) ... the substrate breaks. The quality of the bond is revealed in the detail: After breaking, the primer is still bonded to the substrate. Any potential mechanical damage will therefore not increase.

# MINIMUM DISRUPTION TO YOUR OPERATIONS

## Basic application in only one day! – Cafeteria kitchen

### Requirement

It requires organisational ability and smooth operations to feed a large number of people. No wonder this cafeteria kitchen floor was not at all to the taste of the workers: Tiles of different sizes and materials constituted a real tripping hazard.

### Result

The cafeteria kitchen floor was refurbished and upgraded in a single day. The Remmers flooring system was given top marks for the

A flooring system was needed that would form a seamless homogeneous surface and ensure safety. Finally the refurbishment had to be completed without a hitch over a weekend in only 24 hours so that no one went hungry on Monday.

impressive result – a seamless homogeneous finish without joints or other tripping hazards.



*Not the ideal base*

*The substrate consisted of tiles of different sizes and materials. A real safety hazard and an ideal breeding ground for bacteria.*

## Weekend working with safety assured – Meat processing plant

### Requirement

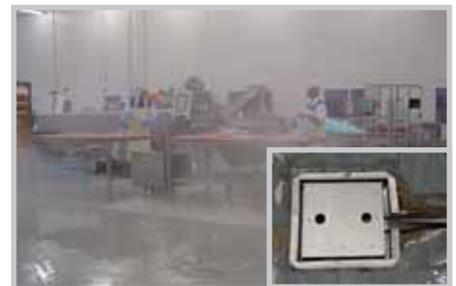
When new flooring had to be laid in this meat-processing factory, it was the sausage that mattered: A quality heavy duty flooring system had to be laid without costly and disruptive production down time. A refurbishment solution was needed that could take the high stress, meet health and

safety regulations and yet could be easily installed over a single weekend. The substrate in this permanently wet area from the frequent cleaning, presented an additional challenge. Complete drying of the substrate was clearly impossible in the time period available.

### Result

This Remmers proposal provided the best solution for a reliable flooring system, with the absolute minimum production down time. The installation proceeded smoothly. The strict

conditions of the German Employers' Insurance Liability Association for slip resistance were easily achieved.



*Friday:*

*Work begins when work ends*

*Production continues until Friday mid-day, then after final cleaning and washing down, the weekend begins for the workers and work begins for Remmers. The equipment is dismantled. Minor damage is exposed, such as broken sections of the surface drains that could develop into major problems and safety hazards. Therefore special attention is paid to repairing and eliminating all of these inadequate details during the refurbishment.*

## Designed to stay fresh – Salmon processing facility

### Requirement

Salmon must be processed when very freshly caught. Because this floor was also no longer 'quite fresh', performance and safety had to be

restored before the next catch in only four days' time. Plus: all of this in a permanently wet area, where 3°C could not be exceeded.

### Result

The Remmers flooring system selected bonds securely to the damp substrate. This slip resistant, highly mechanically resistant,

flooring system is also quick and easy to clean and easily achieves the hygiene requirements for the fish processing industry.



*Day 1: The base must be sound*

*The substrate was prepared. Defects and damage in the floor surface were filled with a fast reacting Remmers epoxy mortar, which also bonds to residually damp substrates.*

# WITH MAXIMUM RESULTS



**Three steps in one operation**  
After substrate preparation:

Remmers primer, base coat and leveller are applied in one operation, so that this layer can then be fully broadcast with selected quartz sand within 45 minutes of application (to achieve the selected slip resistant surface profile).



**Only four hours later: Finishing with the resistant top sealing coat**

After only four hours the surface can be walked on, the surplus quartz sand can be removed and the seamless homogeneous finish is revealed. The Remmers top sealing coat is then applied which is also designed for the high exposure stresses (chemicals, temperatures etc.) in the kitchen.



**Seamless with no joints**

The joints between the old tiles can no longer be seen. Clear proof of the excellent flow properties of the Remmers system. And with this smooth level surface, nothing stands in the way of daily operations.



**Friday night: The existing screed laid to falls is removed**

Thorough preparation of the substrate begins. The existing screed was removed by planing. The requirements for a homogeneous finish are met by applying the new Remmers epoxy based screed to falls. Because the necessary curing time is only a few hours, everything runs according to programme.



**Saturday mid-day: The floor finish is laid**

During the next 24 hours the Remmers Ceramix system is applied in three stages up to Sunday afternoon. It is then only about 12 hours before the Remmers Ceramix system has to be cured sufficiently for traffic and exposure to water as work begins again.



**Monday morning: Safe and ready for operations**

On Monday morning production can resume immediately after reinstallation of the equipment. The workers also increase their output and nothing escapes from the newly laid floor, which is how things will stay.



**Day 2: Cleaning and preparation**

The floor is thoroughly cleaned with a penetrating cleaner and plenty of fresh water.



**Day 3: The finish is applied**

The Remmers primer and base coat is applied in one operation and the wet coating is fully broadcast with Remmers Ceramix, graded coloured quartz aggregate. After curing the surplus is removed and the surface is uniformly sealed with a chemically resistant, fast reacting Remmers low temperature curing epoxy resin top coat.



**Day 4: It looks good**

The salmon arrive and are processed on time, which immediately makes the floor very wet and stressed again. No problem: Even after lengthy early exposure with continuous working, the floor is undamaged. Production and cleaning continues unhindered for the owners.

# FUNCTION AND COLOUR:

## Utility combined with beauty

Taste can be disputed – but not functionality. In the food industry practical aspects and considerations can also play a decisive role in the choice of floor colour. Specific colour psychology factors are increasingly also a primary concern in applications involving storerooms, sales areas and production facilities. In industrial kitchens it can be important to choose flooring that does not show any marks. In other sectors such as the meat processing industry the right choice of colour can improve the image or functionally help show where cleaning is necessary, or to designate special areas such as walkways etc.

You can also save money with our functional colour range: In rooms

without windows, certain light coloured floors reflect artificial light better than others, providing additional “passive lighting”. The lighting intensity and therefore the running costs can be reduced. Remmers Technical Service Department will be pleased to give you further lighting recommendations.



*Remmers floors are plasticizer and solvent free meeting the strict criteria of the AgBB (German Committee for the Health Assessment of Building Products).*

### Examples of functional colour selection



*Far from theoretical  
Functionality does not have to be colourless. The Remmers Ceramix colour collection offers good possibilities for any area.*



*Colour's fine – everything's fine!  
Although Remmers floors are very different in colour, they all meet the same high hygiene standards and are easy to clean, neutral in odour and VOC compliant.*



Light grey



Anthracite



Terracotta



Red



Red brown



Beige



Green



Blue



Silver grey

### Remmers Ceramix colour collection

Remmers provide all of the popular standard colours for industrial flooring and almost any non-standard colour is available on request. Individual designs and variations are also possible by mixing standard colours. With this wide variety of colour combinations, the Remmers range looks good in any application.



*Looking good even after a hard day's work  
Simply practical: Functional colour design. Even if liquids such as blood are an everyday occurrence, flooring from Remmers can always look good.*



*Fully to your taste  
If you do not want your floor to reveal what is on the menu, we can also recommend a suitable colour – based 'non marking' option according to your personal wishes.*

# A GOOD REASON FOR CHOOSING REMMERS:

## Our “Free Floor Condition Survey and Analysis” – including your free individual floor system recommendations

Chemically resistant and resistant to heat or icy cold, slip resistant and capable of withstanding heavy loads – the requirements for flooring in the food industry are extensive and varied. Remmers provide customized flooring systems, designed specifically for the food industry, which match your



*Free floor condition survey and analysis:*

*Recording of all important data including substrate type and existing damage.*

requirements and accommodate your own individual preferences. Our comprehensive service is designed to help you make the right choice. We first look at things in depth, with a thorough and detailed floor condition analysis on site. Based on this, we produce a checklist for you.



*Expert advice:*

*Everything is considered to accommodate your detailed future floor requirements.*

It records all the important data including the substrate type, existing damage, your future requirements and performance criteria for the floor – and also any other important factors, such as special footwear if worn. Where necessary actual samples of your floor can be examined and analysed in our laboratories using the latest technology, based on these results and your system requirements, Remmers will recommend the ideal system for you and the best way to proceed. To avoid unwanted down times from the outset, precisely defined working periods are agreed to complete the works, ensuring that you always retain control. Deadlines are not missed and tight budgets do not overrun.



*Specifying the floor system requirements:*

*Anticipated load, deadlines and budgets are finalised in advance.*



*Individual system recommendation:*

*The results from the floor condition analysis and the requirement profile are combined to recommend the ideal individual flooring system, programme and cost for your project.*

### Our focus is service!

We are happy to help you with the whole process – in co-operation with our highly trained installation contractors. From analysis through planning to completion of your floor. We provide a reliable and transparent programme. On the next pages we show how your individual Remmers flooring system proposal might look.

#### The advantages at a glance

- Specially developed for the food industry
- Safety and security
- Heat, cold and chemical resistance
- Adaptable to all slip resistance requirements. Classes (R 9-13) and V classes (slip displacement factor)
- Very good hygiene because the coating is jointless and waterproof
- Extremely easy to care for, hygienic and durable due to very good cleaning properties
- Fast and reliable to lay on residually damp, cracked and rough or uneven substrates
- Homogeneous finish due to coordinated system components
- Varied, functional colour range
- Free floor condition survey and analysis
- Individual system recommendations to meet your individual requirements
- Certified quality and performance – test and approvals certificates available on request
- High mechanical impact and abrasion resistance
- Compliance with the latest VOC directives: Harmless to health when cured
- Tested and proven for use in the food industry

# THE IDEAL FLOORING SYSTEM WITH THE REMMERS SYSTEM DESIGNER

We are not satisfied unless you are. So we take individual needs and requirements into consideration for every flooring system. Two things are always crucial when selecting your system. The first is the existing

substrate and the second the very specific requirements that you have: Slip resistance, colour design, short curing times and/or heat resistance etc. All must be considered. How to do this: This is quickly achieved with

the Remmers system designer. For instance, if you want to coat over old existing tiles in a short time to meet a slip resistance class of R12 (and V04 in future), we recommend System No. 5.

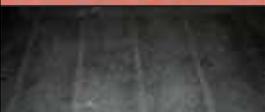
## Step 2: What specific finish requirements must your new flooring meet?

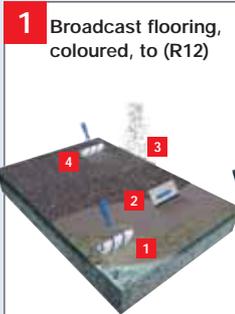
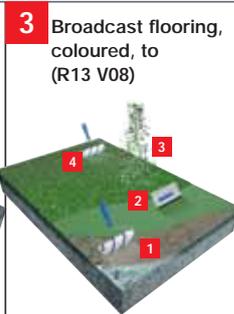
-  This flooring all withstands high mechanical stresses (e.g. high point loading)
- a** Smoothing with a levelling compound consisting of Epoxy MT 100 and Selectmix SBL
- b** Priming with Epoxy FAS 100
- c** Yellowing is possible in direct UV stress
- d** Yellowing will occur in UV stress

### Talk to us

Contact Remmers Technical Services Department for information on our Remmers Crete heat-resistant systems.

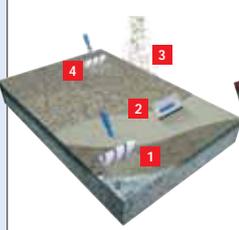
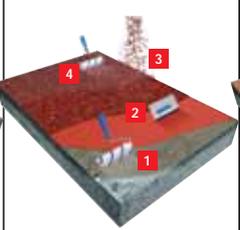
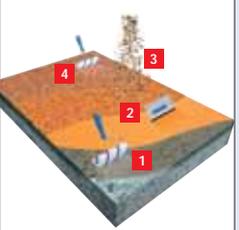
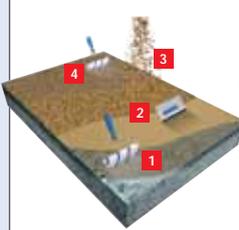
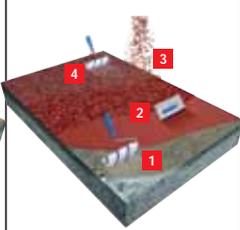
### Step 1: What type of substrate is it?

Concrete, blast cleaned	
Concrete, planed and blast cleaned	
Concrete, ground	
Cementitious screed, blast cleaned	
Old ceramic tiles	
Mastic asphalt *	
Damp concrete/cementitious screed (residual water/permanently wet area)	

1 Broadcast flooring, coloured, to (R12)	2 Broadcast flooring, coloured, to (R13 V04)	3 Broadcast flooring, coloured, to (R13 V08)
		
<ul style="list-style-type: none"> <li>[1] Application of primer (Epoxy MT 100) with epoxy roller</li> <li>[2] Application of base layer (Epoxy CR Color) with serrated trowel</li> <li>[3] Quartz sand broadcasting, 0.1 to 0.4 mm</li> <li>[4] Application of top seal (Epoxy CR Color) with epoxy roller</li> </ul>	<ul style="list-style-type: none"> <li>[1] Application of primer (Epoxy MT 100) with epoxy roller</li> <li>[2] Application of base layer (Epoxy CR Color) with serrated trowel</li> <li>[3] Quartz sand broadcasting, 0.2 to 0.7 mm</li> <li>[4] Application of top seal (Epoxy CR Color) with epoxy roller</li> </ul>	<ul style="list-style-type: none"> <li>[1] Application of primer (Epoxy MT 100) with epoxy roller</li> <li>[2] Application of base layer (Epoxy CR Color) with serrated trowel</li> <li>[3] Quartz sand broadcasting, 0.7 to 1.2 mm</li> <li>[4] Application of top seal (Epoxy CR Color) with epoxy roller</li> </ul>
		
		
		
		
		
		
		

\* Only in internal areas and not exposed to heat radiation.

Important factors in the decision making process are naturally your budget and the timetable. Our recommendation: Obtain detailed advice from Remmers Technical Service Department.

<p><b>4</b> Broadcast flooring, multi-coloured, to (R12)</p> 	<p><b>5</b> Broadcast flooring, multi-coloured, to (R12 V06)</p> 	<p><b>6</b> Broadcast flooring, multi-coloured, to (R12 V08)</p> 	<p><b>7</b> Broadcast flooring, fast reacting, to (R12 V06)</p> 	<p><b>8</b> Broadcast flooring, fast reacting, to (R12 V08)</p> 
<p>[1] Application of primer (Epoxy MT 100) with epoxy roller</p> <p>[2] Application of base layer (Epoxy MT 100 with Selectmix SBL 1:1.5) with serrated trowel</p> <p>[3] Ceramix 03 broadcasting</p> <p>[4] Application of top seal (Epoxy UV 100) with epoxy roller</p>	<p>[1] Application of primer (Epoxy MT 100) with epoxy roller</p> <p>[2] Application of base layer (Epoxy MT 100 with Selectmix SBL 1:1.5) with serrated trowel</p> <p>[3] Ceramix 07 broadcasting</p> <p>[4] Application of top seal (Epoxy UV 100) with epoxy roller</p>	<p>[1] Application of primer (Epoxy MT 100) with epoxy roller</p> <p>[2] Application of base layer (Epoxy MT 100 with Selectmix SBL 1:1.5) with serrated trowel</p> <p>[3] Ceramix 12 broadcasting</p> <p>[4] Application of top seal (Epoxy UV 100) with epoxy roller</p>	<p>[1] Application of primer (Epoxy MT 100) with epoxy roller</p> <p>[2] Application of base layer (Epoxy RP 100 with Selectmix SBL 1:1.5) with serrated trowel</p> <p>[3] Ceramix 07 broadcasting</p> <p>[4] Application of top seal (Epoxy CR 100) with epoxy roller</p>	<p>[1] Application of primer (Epoxy MT 100) with epoxy roller</p> <p>[2] Application of base layer (Epoxy RP 100 with Selectmix SBL 1:1.5) with serrated trowel</p> <p>[3] Ceramix 12 broadcasting</p> <p>[4] Application of top seal (Epoxy CR 100) with epoxy roller</p>
c	c	c	d	d
c	c	c	d	d
c	c	c	d	d
c	c	c	d	d
c	a c	a c	a d	a d
c	c	c	d	d
c	b c	b c	b d	b d

# SIX MORE GOOD REASONS FOR REMMERS:

## A Remmers performance guide for flooring systems

### Decorative flooring systems



*Unlimited design possibilities: With Remmers flooring systems it is normal to really discover the extensive scope for design offered by a floor system. Be inspired and use your imagination.*

### Water vapour diffusible flooring systems



*When residual moisture is present, our water vapour diffusible flooring systems are in their element. They can be laid on almost any substrate, are highly resistant and are ready quickly and reliably.*

### Highly mechanically resistant flooring systems



*However tough your requirements are: In places where heavy stresses occur, our floors prove their reliability. From simple pedestrian or fork lift traffic, to heavy point and dynamic loadings. Our systems can provide whatever degree of mechanical resistance your industrial flooring requires – including both abrasion and impact resistance.*

### Conductive flooring systems



*Where electrical charges and static dissipation through sparking must not be caused by the floor. Our anti static and conductive flooring systems can safely prevent electrostatic discharges and also meet the ESD standards.*

### Chemically resistant flooring systems



*With Remmers nothing reaches the ground water. Our flooring systems always meet the strict conditions of § 19 of the German Water Management Law (WHG). For more information please refer to our Technical Service Department.*

### Time saving flooring systems



*Time is money: When speed matters, Remmers is always ahead. With our fast reacting flooring systems we are always the right partner for those who cannot afford costly down time or delays.*

# ANOTHER THING YOU CAN RELY ON:

## Our customer service

We do not just know our business. We also consider ourselves as a reliable partner for flooring contractors,

architects and designers, facility managers and public authorities. Remmers provides comprehensive

customer service. We are never satisfied unless you are.

### Advice you can rely on and build with



*The basis of the right purchasing decision: Expert technical and practical advice.*

### Remmers Quality goes to school



*The promise is in the name: Our staff, contractors and clients alike all receive regular technical and practical training in Remmers training facilities.*



*Experience brings knowledge: The knowledge acquired on site is put into practice with our training.*

### Research: The reason for our continuing success and development



*A real foundation: A detailed floor condition survey and analysis is the basis for our individual system recommendations.*



*From the industry for the industry: Through our continuous involvement and dialogue with the food industry, our products and systems are continuously developed.*



*Continuous development of our technology: Over 100 people working in our laboratories ensure that we stay at the forefront of flooring technology.*



With Remmers you save effort, time and money: We relieve the pressure on designers, contractors and their clients during tendering, estimating and quoting. At [www.remmers.co.uk](http://www.remmers.co.uk) our partners can access up-to-date

material safety data sheets, technical data sheets and method statements or specification clauses and brochures on all aspects of our extensive flooring range.

### Products you can rely on:

Remmers stands for advanced, durable flooring systems. Our products are certified to the highest standards under ISO 9001 and are verified by independent monitoring,

approvals and test certificates. We were the first manufacturer in Germany to offer full VOC-tested flooring systems which do not pollute the internal air and we are pioneers in the use of the ISO 14001 Environmental Management System.

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