

Resin Flooring Systems

for Industrial & Commercial Markets




remmers

Remmers UK are a leading manufacturer of Synthetic Resin flooring systems for Industrial and Commercial market sectors.

Our systems are detailed and designed to meet the exacting standards of our clients and provide appropriate solutions in the most demanding environments. Since our conception in 1949, Remmers have been at the forefront of innovation in our markets ensuring the very best results for our clients.

Through consultation, our highly skilled technical team can identify the requirements of your project and provide the most appropriate flooring specification from our varied range of floor finishes. Our flooring solutions include:-

- › Industrial flooring systems
- › Car Park decking and waterproofing
- › Safety flooring
- › Breathable flooring
- › Conductive/ESD flooring
- › Hygienic floor and wall coverings
- › Decorative commercial flooring
- › Chemical bund lining

For operational excellence, lay the best foundations with Remmers specialist floor surfaces.



Contents

Why Choose Remmers Flooring	06
Floor Surface Preparation	08
Priming Systems	10
Cement Based Levelling Compounds	12
Coating Systems	14
High Build Coating Systems	16
Composite Layered Systems 1-3mm	18
Decorative Layered Systems 1-3mm	20
Self Smoothing Systems	22
Trowelled Resin Screeds – Industrial	24
Trowelled Resin Screeds – Decorative	26
Stone Carpet	28
Heavy Duty Self Smoothing Systems	30
Heavy Duty PUR Screeds	32
FeRFA Types	34

Why Choose Remmers Flooring?

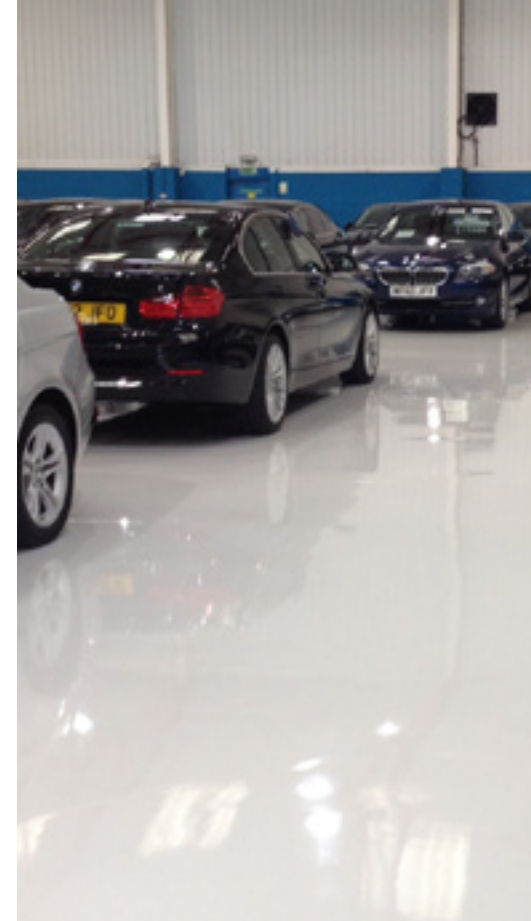
Since its inception in 1949, Remmers has gained an enviable reputation worldwide both for the quality of its product range and its unrivalled technical support service which is available to all clients.

The Remmers flooring systems have been developed after considerable research and extensive practical development programmes. All the products in the collection are produced under the strictest ISO 9001 : ISO 14001 quality control procedures, ensuring excellent consistency and performance of product and a sustainable approach to manufacturing.

Within the Remmers flooring product range are systems providing innovative and highly effective solutions to most problems commonly associated with industrial and commercial floors. This

comprehensive range, which is continually being developed and extended, has been successfully used in many thousands of applications around the world and has accumulated an impressive project reference list.

Remmers are committed to a policy of sustainability and reducing the carbon footprint of our products. Life cycle cost analysis of our resin flooring range versus traditional sheet vinyl or ceramic tile alternatives, gives an excellent price/performance ratio.





Floor Surface preparation

All substrates require a form of pre-treatment in order to create sound surface for maximum adhesion of Remmers resin flooring. Mechanical abrasion is usually most successful, using a combination of enclosed steel ball shot blasting, diamond grinding and surface planning. Most surfaces can be prepared to a suitable standard to receive a Remmers resin floor system.

The Remmers range of priming systems has been developed to ensure that almost all surfaces can be dealt with effectively.

After visual and physical inspection and testing, your Remmers technical consultant can advise as to the most appropriate preparation and priming method to minimise any potential for failure of the newly installed resin floor finish.

Substrates beneath the floor finish can vary widely, whether it be the refurbishment of an old industrial slab or a brand new power floated surface, technical considerations must be addressed for long term performance. The following table gives an indication as to which of our priming systems should be considered for various substrates.

Priming Systems

Primer	Epoxy ST 100	Epoxy BS 2000 New	Epoxy MT 100	Epoxy FAS 100	PUR Indu Color	Epoxy Quick 100
Concrete - Dry	✓	✓	✓	✓	✓	✓
Concrete – Damp		✓	✓	✓		
Oil Contamination			✓	✓		
Cement Screed	✓	✓	✓	✓	✓	✓
Anhydrite Screed		✓				
Ceramic Tiles			✓	✓		
Vinyl Coverings			✓	✓		
Wood Substrate		✓	✓	✓		
Asphalt Floors					✓	
Magnesite Floors		✓				
Fast Cure			✓		✓	✓





Cement Based Levelling Compounds

In the event that the substrates surface is particularly uneven, Remmers have developed a range of polymer modified levelling compounds that can be applied to the surface from thicknesses ranging from 3-50mm.

FEATURES

- › High compressive strength
- › High abrasion resistance
- › Fast application c. 2000m² per day
- › Pump or hand applied
- › Self levelling
- › Polymer enriched
- › Contains recycled raw materials
- › Foot traffic after 3-4 hours
- › Can be covered after 24 hours
- › Can be cut and polished to a final finish
- › Internal and external grades available

SYSTEMS

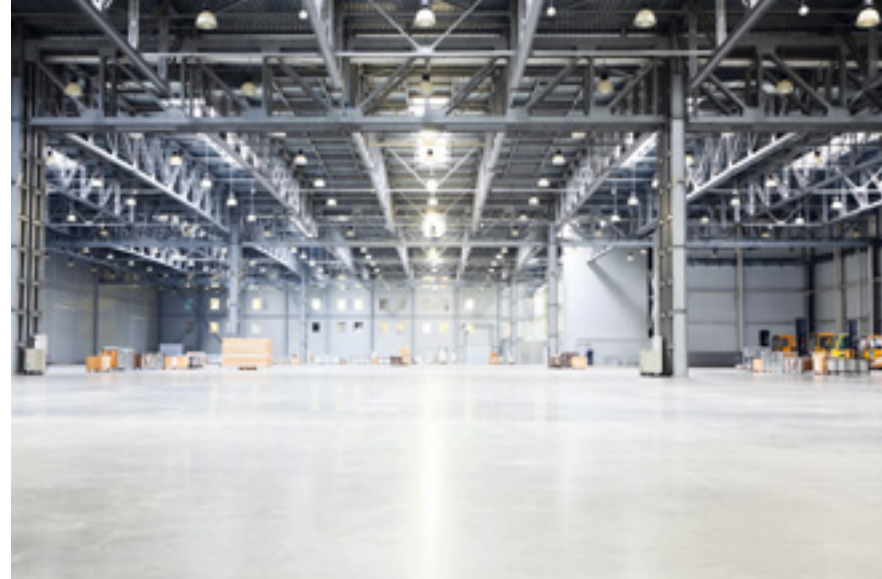
- › Optiplan Base
- › Multiplan
- › Multiplan SiC

Coating Systems - 150-300 μm (FeRFA Type 1 & 2)

For both Industrial and Commercial use, resin floor coatings have been used for decades to provide a cost effective floor topping to protect the substrate and provide a safe and hygienic working platform.

FEATURES	USES	PRODUCTS
<div><div>› Excellent adhesion</div><div>› High abrasion resistance</div><div>› Good chemical resistance</div><div>› Easy to clean</div><div>› Slip resistant grades available</div><div>› Nuclear certification</div><div>› Breathable</div><div>› Environmentally friendly</div></div>	<div><div>› Workshops</div><div>› Warehousing</div><div>› Plant rooms</div><div>› Light manufacturing</div><div>› Aircraft hangars</div><div>› Data centres</div><div>› Old buildings where no DPM present</div></div>	<div><div>› Epoxy BS2000</div><div>› Epoxy BS3000 SG</div><div>› Epoxy BS3000 M</div><div>› Epoxy BS3000 AS</div></div>





High Build Coating Systems (FeRFA Type 3)

For more heavily trafficked environments our range of High-build coating systems will provide a safe platform for industry and commercial ventures. Our wide range of 100% solids solvent free products ensures the most functional requirements of the floor system can be met economically.

FEATURES

- › Abrasion resistant
- › Excellent chemical resistance
- › >300 µm DFT
- › Can be accelerated
- › Matt, silk or gloss finish
- › Slip resistant safety flooring
- › Anti static*
- › Flexible
- › Breathable**

USES

- › Workshops
- › Manufacturing
- › Storage
- › Production halls
- › Aircraft hangars
- › Laboratories
- › Chemical bund lining
- › Tank lining
- › Print halls
- › Agricultural buildings
- › Car park surfacing
- › Superstores

PRODUCTS

- › Epoxy OS Color New
- › Epoxy HB Color
- › Epoxyflex PH Coating
- › Epoxy WHG Color
- › Epoxy WHG Color AS*
- › PUR Indu Color D60
- › PUR Uni Color
- › Epoxy Universal
- › Epoxy CR Color
- › Crete TF
- › Epoxy BS3000 SG**
- › Epoxy SiC Color Top*
- › Epoxy HD Color TX



Composite Layered Systems 1-3mm (FeRFA Type 4)

Where heavier impact and abrasion resistance is required in industrial environments, multiple layers of resins can be built encapsulating high strength industrial aggregates such as Aluminium Oxide, Emery and Silicon Carbide. The additional wear resistance created is unsurpassed when adding the hardness of these minerals into a resin floor system.

FEATURES	USES	PRODUCTS
<ul style="list-style-type: none">› Slip resistant› Excellent abrasion resistance› Excellent chemical resistance› Impact resistant› Anti static*› Can be accelerated	<ul style="list-style-type: none">› Heavy industry› Oily production environments› Areas of high traffic› Areas of explosion risk*› Agricultural buildings› Car park surfacing	<ul style="list-style-type: none">› Epoxy OS Color New› Epoxy HB Color› Epoxyflex PH Coating› Epoxy AS Color*› Epoxy WHG Color› Epoxy WHG Color AS*› PUR Indu Color D60





Decorative Layered Systems 1-3mm (FeRFA Type 4)

For use in commercial and industrial environments where the benefits of seamless resin flooring are combined with stunning aesthetics. More commonly these systems are being adopted as replacements for vinyl and tile coverings due to the increased physical performance and reduced life cycle costs.

FEATURES

- > Slip resistant
- > Excellent abrasion resistance
- > Excellent chemical resistance
- > Impact resistant
- > Endless design potential
- > Can be accelerated
- > UV resistant

USES

- > Schools
- > Hospitals
- > Pharmaceutical Production
- > Laboratories
- > Wet Food Production
- > Market Halls
- > Transport Interchange
- > Kitchens
- > Ramps & Bridges
- > Stairwells
- > Changing Facilities
- > Stadia

PRODUCTS

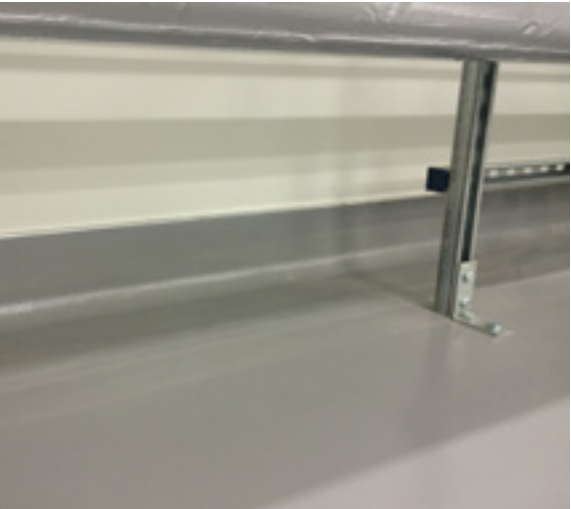
- > Ceramix 03
- > Ceramix 07
- > Ceramix 12
- > Sediment Flake
- > Colorid Flake
- > Granoflake
- > Zydrit®



Self Smoothing Systems (FeRFA Type 5)

Epoxy and PUR self smoothing screeds offer excellent physical performance together with a clean high-tech appearance. Used extensively within Automotive and Aerospace facilities, these systems are durable, impact, chemical and abrasion resistant. Available in a wide range of colours that can be further enhanced by a UV light absorbing finishing coat.

FEATURES	USES	PRODUCTS	SEALERS
<div><div>› Easy to clean</div><div>› Excellent abrasion resistance</div><div>› Excellent chemical resistance</div><div>› Impact resistant</div><div>› Matt, silk or gloss finish</div><div>› Can be accelerated</div><div>› UV resistant</div><div>› Slip resistant*</div><div>› ESD compliant**</div><div>› Fast Track Installation</div></div>	<div><div>› Automotive</div><div>› Aerospace</div><div>› Pharmaceutical production</div><div>› Laboratories</div><div>› Dry food production</div><div>› Showrooms</div><div>› Electronics industry</div><div>› General manufacturing</div><div>› Warehousing</div><div>› Nuclear & Power</div><div>› Superstores</div><div>› Retail</div><div>› Domestic</div><div>› Offices</div></div>	<div><div>› Epoxy OS Color New SL</div><div>› EpoxyFlex PH SL</div><div>› PUR Indu Color D60 SL</div><div>› PUR Deco Color Bright</div><div>› Epoxy CR Color SL</div><div>› Epoxy WHG Color SL</div><div>› Epoxy ESD 3K Color**</div><div>› Crete SL</div><div>› PUR Uni Color SL</div></div>	<div><div>› PUR Top M</div><div>› PUR Top M+*</div><div>› PUR Top G+*</div><div>› PUR Aqua Top 500 2K M</div><div>› PUR Aqua Top 500 2K M+*</div><div>› PUR Aqua Top 2K SG</div><div>› PUR Aqua Top M</div><div>› PUR Color Top 2KM</div><div>› PUR Aqua Color Top 2KM</div><div>› PUR Aqua Color Top 2CM</div></div>





Trowelled Resin Screeds – Industrial (FeRFA Type 6)

Epoxy mortar screeds offer superior physical toughness with increased impact resistance for the toughest industrial environments. Installed both manually and by Power Trowel these screeds have excellent impact resistance and using a range of surface finishes can offer anti slip and chemical resistant properties.

FEATURES

- › Easy to clean
- › Excellent abrasion resistance
- › Excellent chemical resistance
- › Excellent impact resistance
- › Matt, silk or gloss finish
- › UV resistant
- › Slip resistant
- › Fast track installation

USES

- › Automotive
- › Aerospace
- › Pharmaceutical production
- › Laboratories
- › Food production
- › Showrooms
- › Heavy engineering
- › Bund lining
- › Rail maintenance
- › Warehousing
- › Nuclear & Power

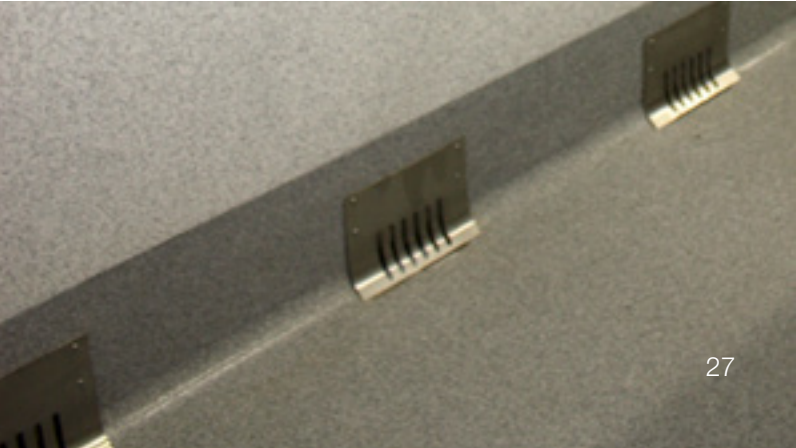
PRODUCTS

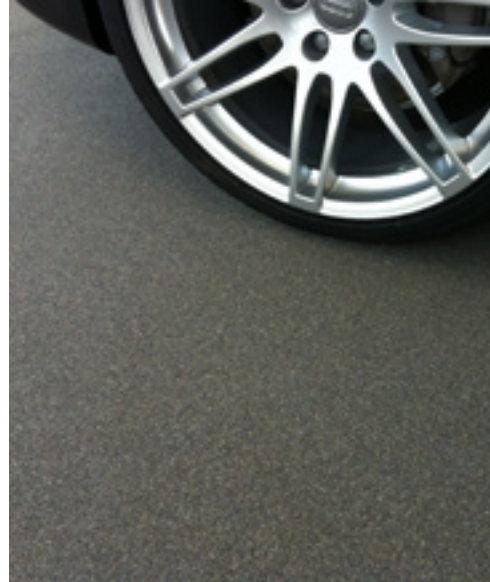
- › EP Screed
- › Selectmix RMS
- › Floormix
- › Floormix DQ

Trowelled Resin Screeds – Decorative (FeRFA Type 6)

Decorative resin screeds are becoming very popular in commercial environments. Combining attractive aesthetics with the tough, seamless nature of resin flooring make these screeds an ideal choice for durable, designer floors. The seamless nature of the resin installation sweeping to a skirting detail eliminate points of failure where traditional finishes such a sheet vinyl and ceramic tiles are found wanting. Using only the highest quality components, Remmers Decorative systems are UV protected and offer a sustainable alternative with beneficial life cycle costs.

FEATURES	USES	PRODUCTS
<div><div>› Easy to clean</div><div>› Excellent abrasion resistance</div><div>› Excellent chemical resistance</div><div>› Excellent impact resistance</div><div>› Matt or silk finish</div><div>› Wide range of colours</div><div>› UV resistant</div><div>› Seamless</div><div>› Waterproof</div><div>› Slip resistant</div><div>› Fast track installation</div></div>	<div><div>› Schools</div><div>› Hospitals</div><div>› Custody suites</div><div>› Stadia</div><div>› Hotels</div><div>› Kitchens</div><div>› Animal housing</div><div>› Swimming pools</div><div>› Changing areas</div><div>› Showrooms</div><div>› Canteens</div><div>› Retail</div><div>› Police cells</div></div>	<div><div>› EP Screed</div><div>› Floormix</div><div>› Floormix DQ</div></div>





Stone Carpet - (FeRFA Type 6)

Resin bound and resin bonded stone carpets are a durable decorative alternative for hard landscaping areas. Footpaths, roadways, driveways and tree pit surrounds can all benefit from resin bound systems. Our UV stable, toughened, elastic systems can be installed to numerous substrates to renovate and revitalise. Fully or semi drainable systems ensure minimal water puddling and provide slip resistant surfaces all year round. A wide range of natural and coloured aggregates can be incorporated in the systems to suit any design concept.

FEATURES

- › Easy to clean
- › Excellent adhesion to most surfaces
- › Excellent UV resistance
- › Highly elastic resin binders
- › Natural look
- › Drainable
- › Fast curing
- › Fast track installation
- › Slip resistant

USES

- › Parks
- › Driveways
- › Garden centres
- › Zoos
- › Pavements
- › Tourist attractions
- › Stadia
- › Offices
- › Schools
- › Car showrooms
- › Retail
- › Balconies
- › Flat roofing

PRODUCTS

- › PUR UV100
- › PUR Grip 100
- › Epoxy UV100
- › Ceramix 20/30
- › Natural Pebbles



Heavy Duty Self Smoothing Systems (FeRFA Type 7)

Epoxy and PUR self smoothing screeds can be installed at thicker depths to afford greater durability, levelling, crack bridging and impact resistance. Utilising all the benefits of a FeRFA Type 5 whilst increasing the lifespan and flatness potential of the new flooring. Generally these systems are more prevalent in Industrial applications.

FEATURES	USES	PRODUCTS	SEALERS
<div><div>› Easy to clean</div><div>› Excellent abrasion resistance</div><div>› Excellent chemical resistance</div><div>› Excellent Impact resistance</div><div>› Matt, silk or gloss finish</div><div>› Can be accelerated</div><div>› UV resistant</div><div>› Slip resistant*</div><div>› Fast track installation</div></div>	<div><div>› Automotive</div><div>› Aerospace</div><div>› Pharmaceutical production</div><div>› Laboratories</div><div>› Dry Food Production</div><div>› Heavy manufacturing</div><div>› Nuclear & Power</div><div>› Warehousing</div></div>	<div><div>› Epoxy OS Color New SL</div><div>› EpoxyFlex PH SL</div><div>› PUR Indu Color D60 SL</div><div>› Epoxy CR Color SL</div><div>› Crete SL</div><div>› PUR Uni Color SL</div></div>	<div><div>› PUR Top M</div><div>› PUR Top M+*</div><div>› PUR Top G+*</div><div>› PUR Aqua Top 500 2K M</div><div>› PUR Aqua Top 500 2K M+*</div><div>› PUR Aqua Top 2K SG</div><div>› PUR Aqua Top M</div><div>› PUR Color Top 2KM</div><div>› PUR Aqua Color Top 2KM</div><div>› PUR Aqua Color Top 2CM</div></div>





Heavy Duty PUR Screeds (FeRFA Type 8)

Polyurethane Screed systems are synonymous with the food industry in the UK. However their performance characteristics make them suited to extreme industrial environments of all types. High temperature and chemical resistance coupled with heavy duty impact and abrasion make this floor type one of the most durable options.

FEATURES	USES	PRODUCTS
<ul style="list-style-type: none"> › Easy to clean › Hygienic › Excellent chemical resistance › Excellent impact resistant › Matt finish › Slip resistant › Steam cleanable at 9mm › Fast track installation 	<ul style="list-style-type: none"> › Food production › Heavy industry › Chemical bunds › Kitchens › Animal housing › Chemical processing › Agriculture › Recycling Centre › Breweries › Soft drinks production 	<ul style="list-style-type: none"> › Crete HF › Crete RT › Crete WR › Crete BL



FeRFA Types

Table from: "Guide to the Selection of Resin Flooring",
published by FeRFA 2001 & BS 8204-6 (6.2)



Type	Name	Description	Duty	Typical Thickness
1	Floor seal	Applied in two or more coats. Generally solvent or water borne.	LD	Up to 150 µm
2	Floor coating	Applied in two or more coats. Generally solvent free.	LD/MD	150 µm to 300 µm
3	High build Floor coating	Applied in two or more coats. Generally solvent free.	MD	300 µm to 1000 µm
4	Multi-layer flooring	Aggregate dressed systems based on multiple layers of floor coatings or flow-applied floorings, often described as 'sandwich' systems.	MD/HD	>2 mm
5	Flow applied flooring	Often referred to as 'self-smoothing' or 'self-levelling' flooring and having a smooth surface.	MD/HD	2 mm to 3 mm
6	Resin screed flooring	Trowel-finished, heavily filled systems, generally incorporating a surface seal coat to minimize porosity.	MD/HD	>4 mm
7	Heavy duty flowable flooring	Having a smooth surface.	HD/VHD	4 mm to 6 mm
8	Heavy duty Resin flooring	Trowel-finished, aggregate filled systems effectively impervious throughout their thickness.	VHD	>6 mm





www.remmers.co.uk