

industrial polymer systems flooring guide

a big **hello** from vebro

Vebro Polymers is a global supplier of polymer flooring solutions, specialist coatings, pump screeds, rapid-drying screed additives and car park deck wearing and waterproofing solutions.

Our products and systems have been expertly designed for use in a wide variety of applications.

We can also provide specialist materials for use on fast turnaround new-build or renovation projects as well as those required for external applications or subfloor preparation prior to the installation of final finishes.

industries we serve



 industrial & manufacturing



 food & beverage



 parking garages



 commercial venues



 prison buildings



 shopping centres



 institutional buildings




 mixed-use developments



 transport & infrastructure



 external areas

our **big** promise

Vebro Polymers has been formed by like-minded individuals who have hundreds of years' combined experience in the polymer flooring, coatings and construction chemicals industry.

The company was founded on a simple service promise to customers, which aims to provide the best quality, agility and reliability in the industry.



Quality



Agility



Reliability

global team, local expertise

Founded in the UK, Vebro Polymers has grown, establishing hub HQs and partnerships to serve local markets across the world.



polymer flooring explained



what is polymer flooring?

Polymerisation is, in short, a chemical reaction between multiple components to create a polymer.

Although the components of a polymer floor are primarily liquid (other than added decorative flakes, filler aggregates, texturising sand or anti-slip quartz beads), the chemical reaction results in a hard, durable surface.

There are different types of polymer flooring, each with its own unique performance characteristics.

Technology	Best for...
Epoxy	Applications where durability and chemical resistance are required
Polyurethane	Applications where elasticity, impact resistance and UV stability are required
Polyurethane Concrete	Heavy-duty applications and areas of thermal shock
Comfort PU Liquid Vinyl	Commercial applications where design and improved indoor environmental quality are of high importance

Methyl Methacrylate (MMA)	Speedy applications, where a quick turnaround is required
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how is polymer flooring installed?

The first, and arguably most important, step in the installation of a resin floor system is preparation. The applicator will ensure that the substrate has the correct degree of texture, and is level and free of contaminants like dust, oils or grease that may affect the integrity of the final finish.

Once the substrate is ready, resin flooring materials are installed by experienced applicators in layers. Depending on the type of floor system being installed, this process often starts with a primer layer, then body coats and sealers where necessary, ensuring each coat has cured to the appropriate degree before moving on to the next.

benefits of seamless resin vs. alternative floor finishes



Seamless impervious finish, prevents the build-up of dirt in grout lines or at trims



Hardwearing and durable finish with a robust sealer that withstands frequent foot and forklift traffic



Easy to clean & low maintenance; can withstand cleaning processes and be over-coated periodically if needed



Fast cure MMA systems available that can be installed overnight – walk on in just 60 minutes



Many products are nonyl-phenol free, making them safer for both human health and the environment



Wide range of finishes available to suit every area throughout the industrial facility

industrial resin flooring in action...

Vebro Polymers' range of high performance industrial resin flooring is ideally suited to a variety of heavy duty applications including...

-  Hangars & aerospace environments
-  Manufacturing facilities
-  Warehousing & distribution centres
-  Packaging & processing
-  Automotive production & workshops
-  Data centres & electronics
-  Transport & infrastructure
-  Laboratories



industrial flooring tip...

Choose a UV stable sealer to enhance the colour stability of a variety of systems.



In line with BS 8204-6, Section 6.2, FeRFA divides polymer flooring into eight groups that define the specific criteria of a polymer floor – ranging from light duty floor sealers, through to extremely hardwearing trowel finished aggregate-filled floor systems.

- 1 **Floor seal**
< 0.15 mm
Light duty
- 2 **Floor coating**
0.15 – 0.3 mm
Light / medium duty
- 3 **High build floor coating**
0.3 – 1.0 mm
Medium duty
- 4 **Multi-layer flooring**
> 2.0 mm
Medium / heavy duty
- 5 **Flow applied flooring**
2.0 – 3.0 mm
Medium / heavy duty
- 6 **Resin screed flooring**
> 4.0 mm
Medium / heavy duty
- 7 **Heavy duty flowable flooring**
4.0 – 6.0 mm
Heavy / very heavy duty
- 8 **Heavy duty resin flooring**
> 6.0 mm
Very heavy duty

beneath the surface

Prior to the installation of polymer floor coating systems, the substrate may need some attention before being primed to ensure suitable adhesion of the following epoxy, polyurethane or PU concrete materials.



moisture dissipating systems

vebro EP Mortar

A high-strength, trowel-applied epoxy resin mortar designed to dissipate moisture pressure and for permanent repairs to concrete surfaces.

vebrocrete PU MF (pf)

A self-levelling polyurethane concrete system designed to dissipate rising moisture, either as an integral part of a PU concrete system or as the base layer of a slip resistant system.



epoxy primers

vebro EP Primer

A solvent free, colourless, primer which can be overcoated with a wide variety of different flooring systems.

vebro EP WB Primer

A breathable, water-based, two-component primer based on epoxy resin, typically used as a primer for breathable systems or as a grout for vebro EP Mortar.

floor seal¹ high build coating³

Polymer floor seals are designed to protect and enhance existing substrates.

They are often used to shield the floor from water and chemical damage, as well as to provide a decorative finish.



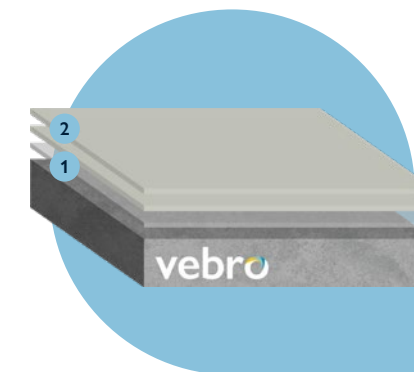
vebrores EP SC

↓ 0.12 mm

Two-coat water-based, easily applied epoxy seal coating with a gloss or satin finish.

system design

- 1 vebro EP Sealer (2 coats)



vebrores EP HBC

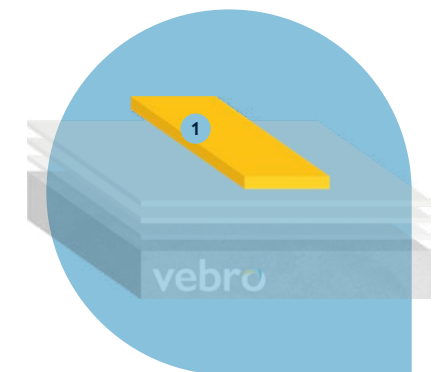
↓ 0.35 mm

Two-coat, solvent free, easily applied epoxy high build coating system.

vebrores EP HBC HCR is also available for areas where there is significant risk of damage from chemical attack.

system design

- 1 vebro EP Primer (optional)
- 2 vebro EP Universal (2 coats)



vebro EP Linemarker

↓ 0.30 mm

Two-component epoxy linemarker for installation over primed concrete or high build epoxy coating systems.

system design

- 1 vebro EP Linemarker



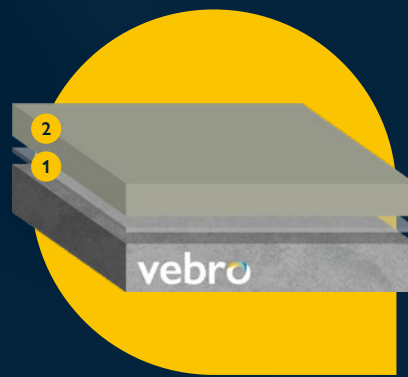
flow applied flooring⁵

Seamless, durable and flexible flooring systems suitable for medium to heavy-duty commercial and industrial applications.

Typically typically three or more components and applied using a roller or trowel, and available in a variety of colours and textures.

Self levelling flooring is resistant to a wide range of chemicals, oils, and solvents, and is easy to clean and maintain. It can also be slip resistant and used in wet and dry environments.

Flow applied flooring is ideal for areas subject to heavy foot traffic, equipment and light vehicular traffic.

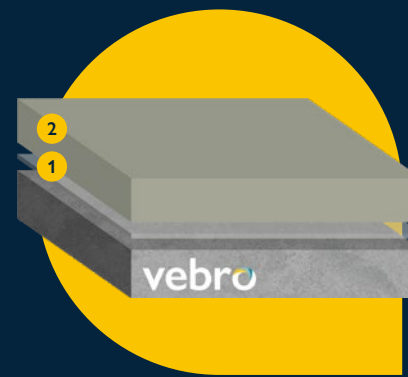


vebrores EP SL1
↑ 1.0 mm

Solvent-free, self-smoothing epoxy system for medium to heavy-duty industrial areas.

system design

- 1 vebro EP Primer
- 2 vebro EP SL1

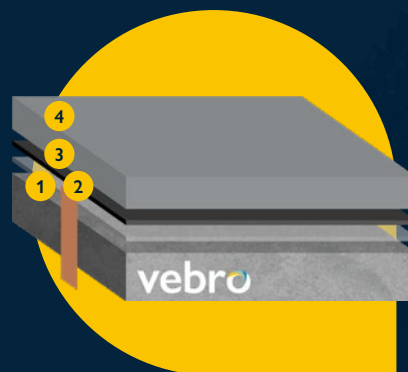


vebrores EP SL2
↑ 2.0 mm

Solvent-free, self-smoothing epoxy system for medium to heavy-duty industrial areas.

system design

- 1 vebro EP Primer
- 2 vebro EP SL2

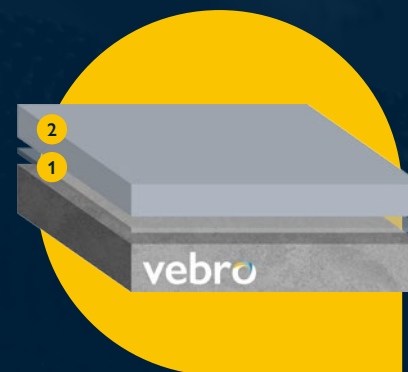


vebrostatic ESD SL (Conductive)
↑ 1.0 mm

Solvent-free, self-smoothing epoxy flooring system designed to immediately dispel electrostatic discharge.

system design

- 1 vebro EP Primer
- 2 Copper Tape
- 3 vebro EP ESD Primer
- 4 vebro EP ESD SL (Conductive)



vebrocrete SL (pf)
↑ 2.0 – 3.0 mm

Medium-duty, easily-applied, self-smoothing reduced thickness PU concrete for dry areas.

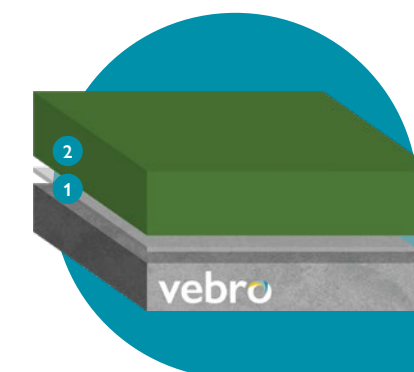
system design

- 1 vebrocrete PU Mf (pf) (unpigmented)
- 2 vebrocrete PU SL (pf)

heavy duty flowable flooring⁷

Designed to provide a seamless, hard-wearing and durable finish to floors in industrial and commercial applications, generally applied up to 6.0 mm.

They can be used in areas subject to heavy traffic and / or chemical and oil spills.

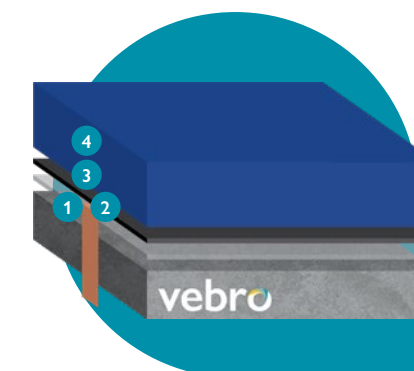


vebrocrete MF (pf)
↑ 3.0 – 4.0 mm

Medium duty, easily-applied, self-smoothing PU concrete for dry & semi-wet areas.

system design

- 1 vebrocrete PU MF (pf) (unpigmented)
- 2 vebrocrete PU MF (pf)

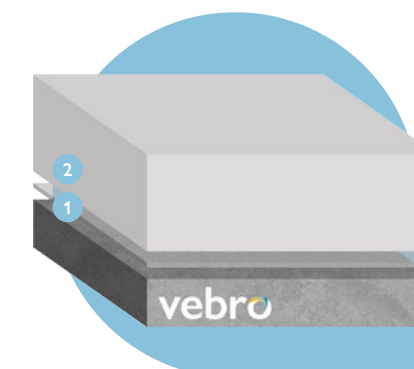


vebrocrete ESD MF
↑ 3.0 – 4.0 mm

Medium duty, easily-applied, self-smoothing PU concrete for areas where ESD protection is critical.

system design

- 1 vebro EP Primer or vebrocrete PU MF (pf) (unpigmented)
- 2 Copper Tape
- 3 vebro ESD Primer
- 4 vebrocrete PU ESD MF



vebrocrete RT (pf)
↑ 6.0 – 9.0 mm

Heavy-duty, rake-applied PU concrete for heavy-duty areas with high temperature swings.

system design

- 1 vebrocrete PU Primer (pf)
- 2 vebrocrete PU RT (pf)



vebropolymers.com

Please note: the information in this guide is subject to change and the most recent technical data should be sought for accurate, up-to-date product or system information. Errors & omissions excepted. The applied colours may differ from the examples shown within this guide. Actual samples should always be viewed before making a final decision, especially if colour accuracy or matching is key to your decision.

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