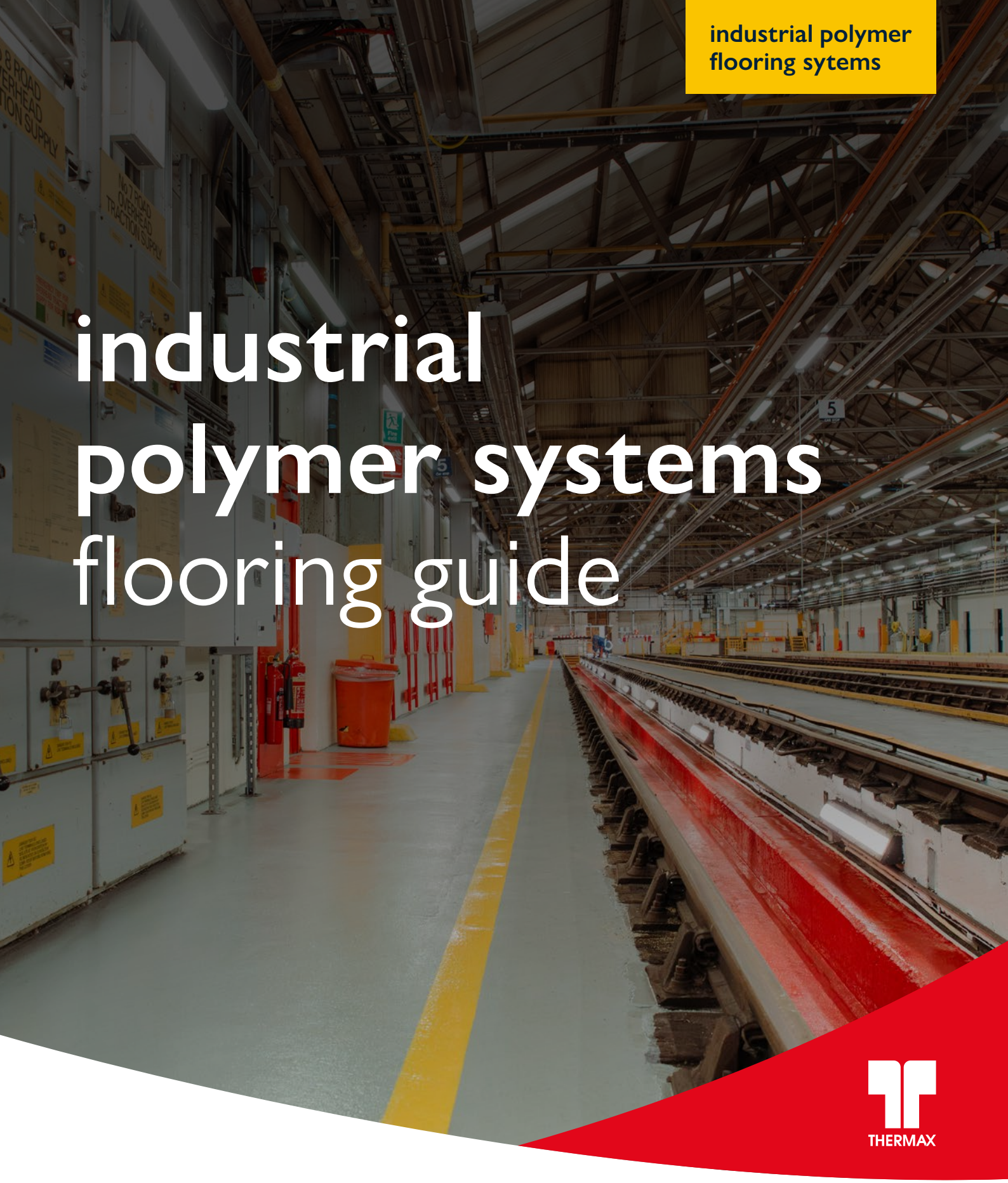
industrial polymer flooring sytems



industrial polymer systems flooring guide

THERMAX

vebro polymers

HACCP INTERNATIONAL PROGRAMME OF FOOD SAFETY CERTIFICATION

FeRFA

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

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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.

vebro HQ

manufacturing

distribution

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.

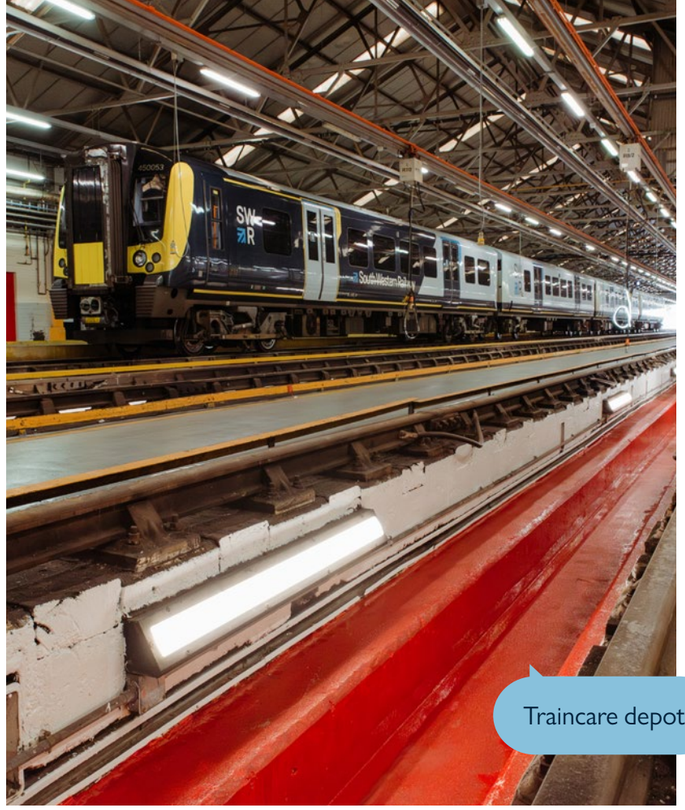
benefits of seamless resin vs. alternative floor finishes

- 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
- Systems suited to all areas of industrial environments, including food processing & front-of-house
- 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 flooring in action…

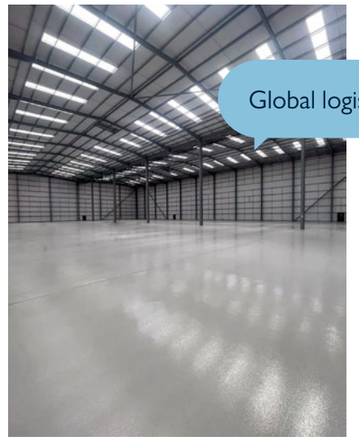
Vebro Polymers' high performance polymer floor coating systems are ideally suited to a variety of industrial applications, and has been chosen by clients across the globe, including…

ESD sensitive manufacturing

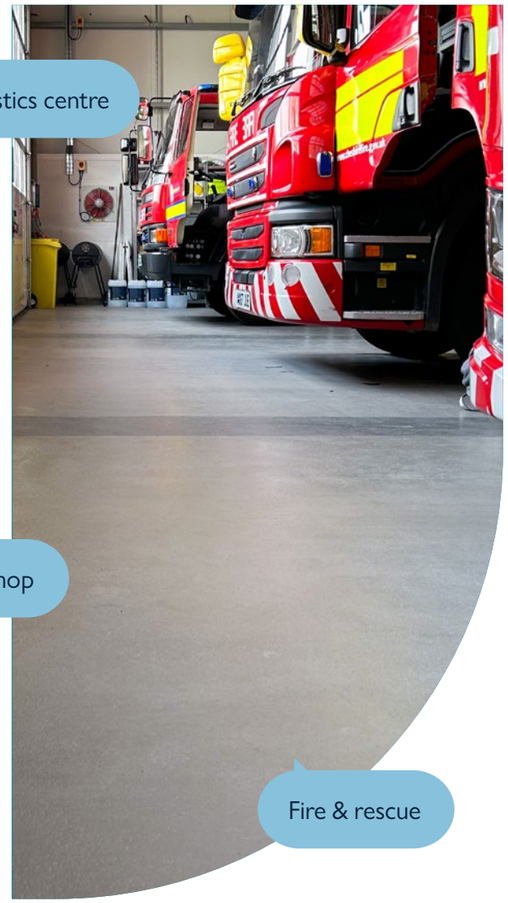


Traincare depot

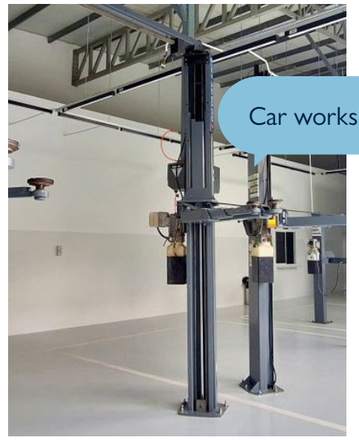
Aircraft hangar



Global logistics centre



Fire & rescue



Car workshop

FRUEHAUF JAGUAR LAND ROVER

HYUNDAI SARTORIUS moog

KOMATSU RAL Space

encirc AUTOGLASS

South Western Railway

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FeRFA

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

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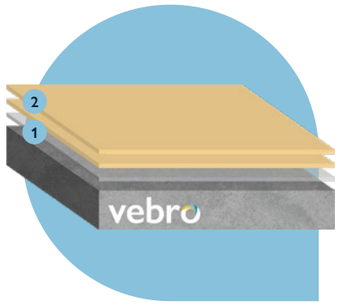
industrial resin flooring by **FeRFA type**

high build coating 3

Typically two-component epoxy or polyurethane systems that are applied to a prepared substrate.

The floor coating system can provide a hard wearing and decorative finish, as well as resistance to abrasion, chemical attack and impact.

These systems are typically used in areas such as warehouses, factories and garages.



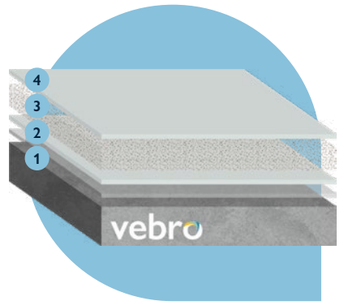
vebrores EP HBC

↕ 0.3 mm

A pigmented, solvent-free, easily-applied high build epoxy floor coating designed to protect concrete substrates.

system design

1. **vebro** EP Primer
2. **vebro** EP HBC *(2 coats)*



vebro EP HBC SR

↕ 0.5 mm

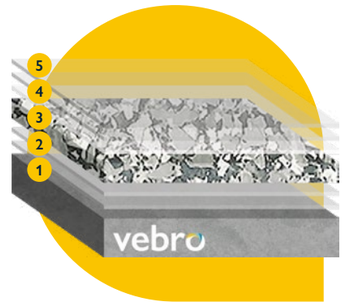
A pigmented, solvent-free, slip-resistant high build epoxy floor coating system.

system design

1. **vebro** EP Primer *(optional)*
2. **vebro** EP HBC
3. 40 – 80s mesh sand
4. **vebro** EP HBC

multi layer flooring 4

Typically systems that consist of multiple layers, including a base coat to provide adhesion to the substrate, a wear layer that gives the floor resistance to wear and tear, and a sealant layer to protect the floor from contaminants.



vebrores EP Flake

↕ 2.0 – 3.0 mm

Highly decorative system incorporating PVA flakes and a durable UV resistant PU resin.

system design

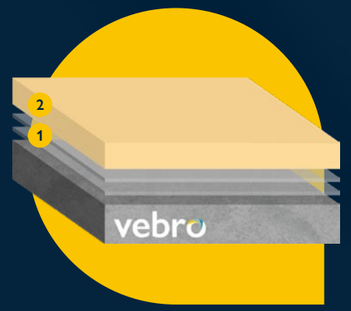
1. **vebro** EP Primer
2. **vebro** EP UL1
3. **vebro** Coloured Flake Blends
4. **vebro** EP Quartz Binder
5. **vebro** PU UV Seal (Clear Matt)

flow applied flooring 5

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.



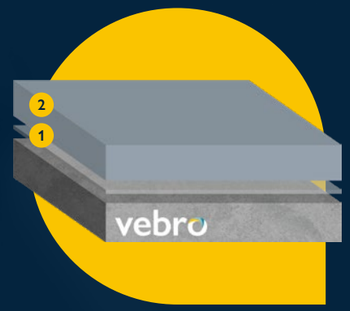
vebrores EP SL1

↕ 1.0 mm

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

system design

1. **vebro** EP Primer
2. **vebro** EP SL1



vebrores EP SL2

↕ 2.0 mm

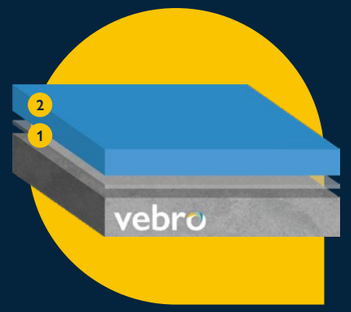
Solvent-free, self-smoothing epoxy system for medium to heavy-duty industrial areas.

system design

1. **vebro** EP Primer
2. **vebro** EP SL2

resin screed flooring 6

Medium to heavy duty flooring systems for industrial and commercial applications, consisting of an epoxy or polyurethane resin base coat, a quartz bead aggregate and a durable topcoat.



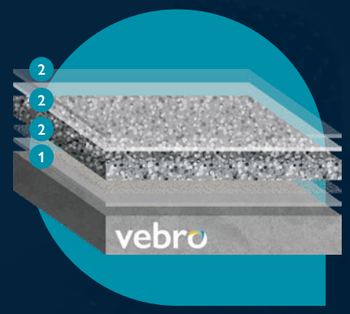
vebrocrete SL

↕ 2.0 – 3.0 mm

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

system design

1. **vebro**crete PU Primer or **vebro**crete PU SL
2. **vebro**crete PU SL



vebrores EP Quartz Classic

↕ 4.0 mm

Durable, hand-trowelled quartz flooring system for heavy duty dry and semi-wet processing areas.

system design

1. **vebro** EP Primer
2. **vebro** Coloured Quartz Blends
3. **vebro** EP Quartz Binder with Coloured Quartz Blends
4. **vebro** EP Grout (Clear)
5. **vebro** PU UV Seal (Clear Satin)

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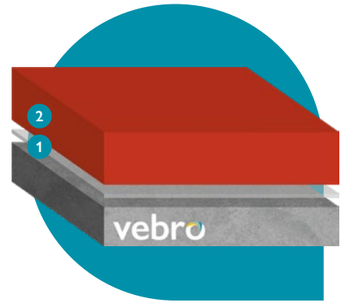
heavy duty flowable flooring 7

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. The relatively-quick-to-install flooring solution delivers minimal downtime for businesses considering the durability payoff.



vebrocrete MF

↕ 3.0 – 4.0 mm

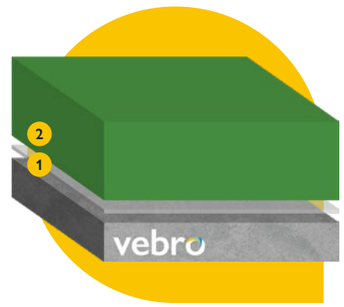
Medium duty, easily-applied, self-smoothing PU concrete for dry & semi-wet areas.

system design

1. **vebro**crete PU Primer or **vebro**crete PU SL
2. **vebro**crete PU MF

heavy duty resin flooring 8

Highly durable, seamless, and low-maintenance flooring systems that are ideal for areas with high foot traffic and heavy machinery. Extremely resistant to impact, abrasion and chemicals, the systems are also very easy to clean, with no need for waxing or buffing required.



vebrocrete RT

↕ 6.0 – 9.0 mm

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

system design

1. **vebro**crete PU Primer
2. **vebro**crete PU RT

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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.