industrial & warehousing units flooring guide

vebro polymers

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







food & beverage



parking garages



o commercia 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.



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			
Ероху	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			

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 is smooth, 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; can withstand chemical cleaning processes and hot water downs



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



Low maintenance; can be over-coated periodically to refresh the surface



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

flooring for industrial units frequently asked questions

Choosing protective flooring for industrial and manufacturing environments is far more complicated than just finding the cheapest coating product – or even worse – leaving the concrete uncoated!

Several other factors including durability, safety, resistance profile and cleanability as well as the cost, will all play a factor in influencing your decision.

To make it easier, we've compiled some of the key FAQs that will help to determine if resin flooring is the right choice for you and your industrial workspace.

How often do resin floor coatings require repair & maintenance?

Resins are seamless in nature and don't include joints or grout lines, which are susceptible to harbouring dirt, grease, bacteria and stains in general. Dust and dirt can simply be swept, mopped or hoovered away and the floor cleaned according to manufacturer's guidelines based on the surface profile of the floor.

Resin flooring is also extremely strong and durable, meaning that it has an extended service life compared to other floor coverings. Installed properly, and with the correct maintenance, it can last for years without cracking or peeling, meaning that you won't have to replace the floor or carry out repairs as frequently than you would if using other materials.

How can resin flooring help to protect against slips and trips?

Slips and trips are one of the most common accidents that occur in the workplace, and one of the reasons for this can be unsuitable floor coverings. With a staff body to protect, it is important to consider this when choosing a floor finish, as well as the service criteria that a floor will be subject to.

For example, areas subject to either wet processes, frequent spillages or those that employ rigorous cleaning regimes such as steam cleaning or hot water wash downs should take particular care to ensure an anti-slip finish when replacing floor coverings or coatings.

Liquid-applied resin floor systems are great to custom build any safety features that you require from your floor within your workspace, surface profiles can be tailored to include quartz, aluminium oxide, glass spheres or silicon carbide in order to enhance the slip resistance profile of the floor finish.

Is resin flooring durable enough for industrial facilities?

Industrial and manufacturing spaces are often subject to heavy loads, equipment and machinery as well as the constant coming and going of rubber-wheeled forklift truck traffic and other punishing processes.

As a result, durability in a flooring material is often critical to avoid the risk of floor failure or the surface wearing far too soon and having the headache of having to replace it all over again!

Epoxy, polyurethane and MMA resin surfaces have a longer lifespan compared to most other flooring solutions. Resin creates a hard, fast bond that is much stronger than just concrete and is highly resistant and able to withstand impact and heavy-duty industrial wear and tear.

Resin also has the advantage of offering a degree of flexibility under stress; this property gives it durability under impact and thermal shock.

How can I ensure safe flow of traffic throughout my facility?

Demarcation and colour blocking across the floor space can be used in industrial workspaces to notify employees and visitors of workflows, warn of any potential risks, hazards or dangers as well as highlight safe walkways and / or areas that should remain clear and accessible.

Resins are also available in virtually an unlimited palette of RAL colours to complement any floor demarcation processes that you may have in place.

Are resin floors expensive?

Resin flooring can sometimes be more expensive in the short term than using other materials, this can be as a result of a potential increased cost of materials as well as the outlay for specialist trained resin contractors to install the product, but its durability alone makes it an extremely cost-effective option, as you won't need to replace it for many years.

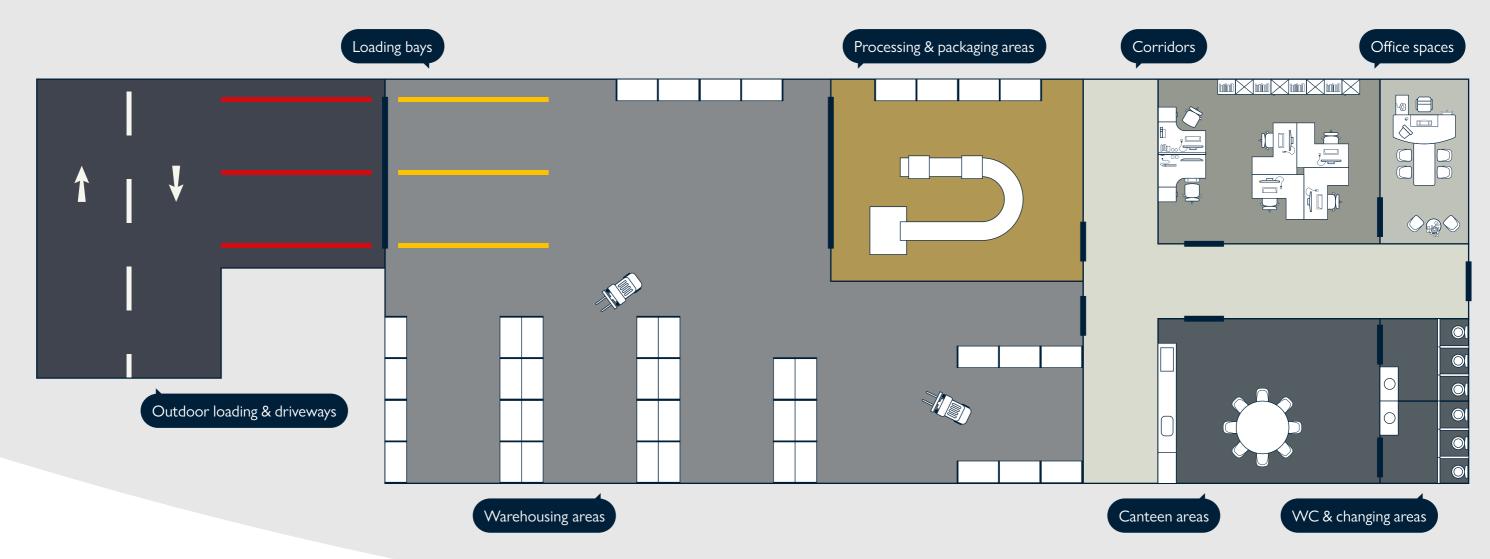
And, when you take into account other savings that you can generate as a result of selecting resin flooring, such as reduced maintenance, cleaning and energy costs, it makes sense that an investment now will continue to pay dividends in the long term too!

Can resin floor achieve SR1 flatness?

An extremely flat finish can be critical in the finished goods or raw materials warehousing area of an industrial facility, where racking aisles may be narrow and stacked high. A slight deviation in the floor level could spell disaster for forklift truck operators attempted to retrieve goods.

Epoxy, polyurethane and MMA resin floor systems have a self-smoothing property and, provided their installed by an experienced applicator, are capable of achieving SR1 flatness, making them ideally suited to warehouse spaces.

Their seamless application also means that there are no grout lines or breaks in the floor surface in the driveways of warehouse aisles.



industrial units floor systems selector

Each of Vebro Polymers' range of floor systems has been specifically designed to meet various service criteria.

For that reason, we've put together our recommended floor systems for each area of industrial & warehousing facilities.



If your substrate needs some attention, **vebro**screed systems are also available should any levelling be required prior to the installation of polymer finishes! Visit **vebro**polymers.com for more information.

vebro polymers.com

Vebro Polymers Floor System	Warehousing areas	Loading bays	Outdoor loading & driveways	Processing & packaging areas	Office spaces	Canteen areas	WC & changing areas	Corridors
vebrores EP HBC	✓							
vebrores EP SL	✓							✓
vebrores PU HBC	✓							
vebrores PU SL HD	✓							
vebro crete MF				\checkmark				
vebrocrete HF				✓				
vebro speed Flake					\checkmark	\checkmark		
vebrospeed Quartz							✓	
vebrodeck MMA ID		\checkmark						
vebrodeck MMA Linemarker		✓						
vebrodeck MMA Topcoat			✓					
vebroscreed Industrial	✓							

industrial units floor systems guide

Ranging from epoxy and polyurethane coating systems for warehouses and corridors, through to methyl-methacrylate deck systems and demarcation for loading bays, Vebro Polymers offers a complete range of resin flooring materials for industrial applications.

Vebro Polymers' range of epoxy, polyurethane and MMA flooring and deck coating systems are available in a wide range of standard, non-standard and premium colours. For your copy of the Vebro Polymers Colour Bible, visit **vebro**polymers.com.

what does it all mean?

Throughout this floor system guide, you will see a number of icons relating to the installation and performance features of each system recommended for industrial facilities and warehouse units. Here's what they all mean...



Application

thickness





FeRFA







Working



Time before light foot traffic

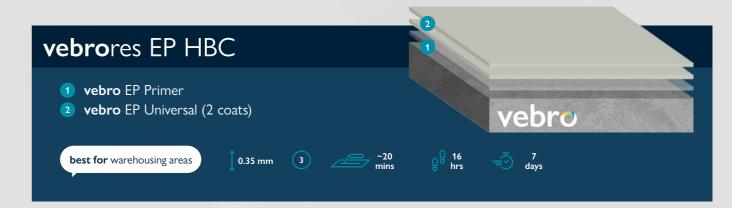


Full chemical curing time at 20°C

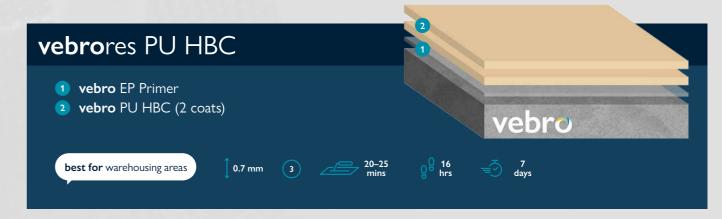
technically speaking...

Looking for technical information? Full technical profiles can be found in Vebro Polymers' technical datasheets. For the most recent technical datasheets and standard system specifications, please visit www.vebropolymers.com

epoxy & pu coating systems





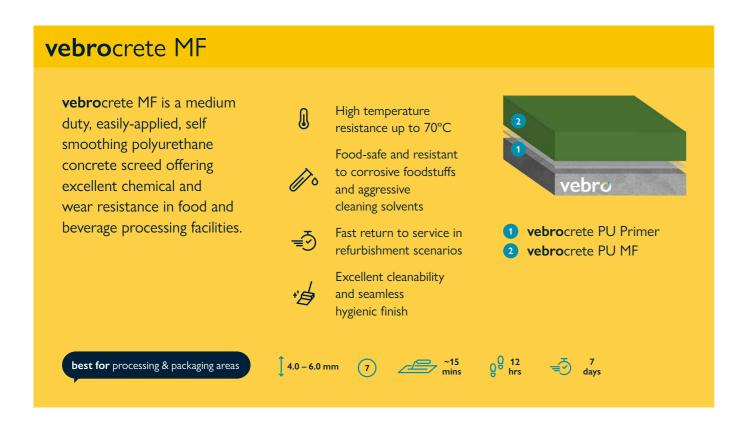


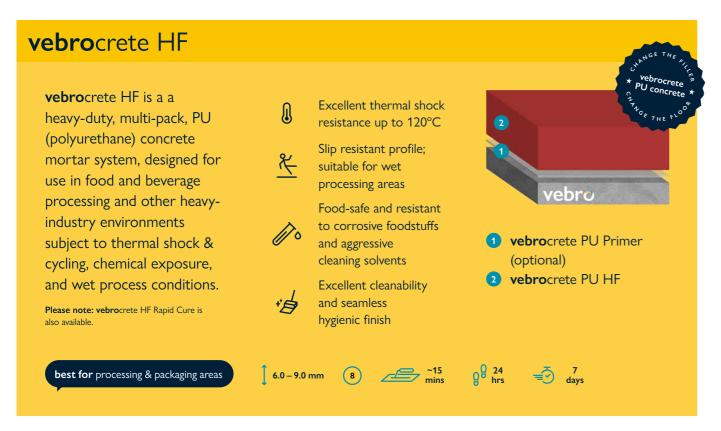


looking for added slip resistance?

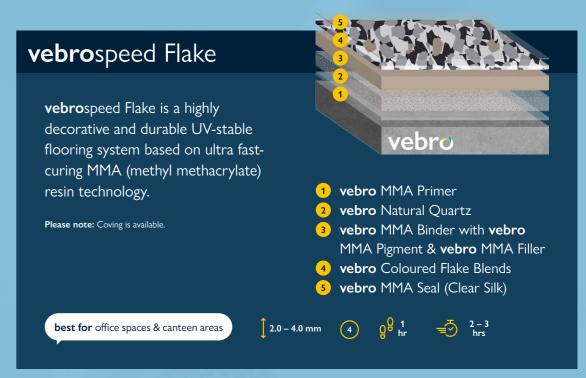
A textured finish can be achieved in these ${\bf vebro}$ res systems through the inclusion of graded aggregates between coats. For more information, visit vebropolymers.com

polyurethane floor screeds



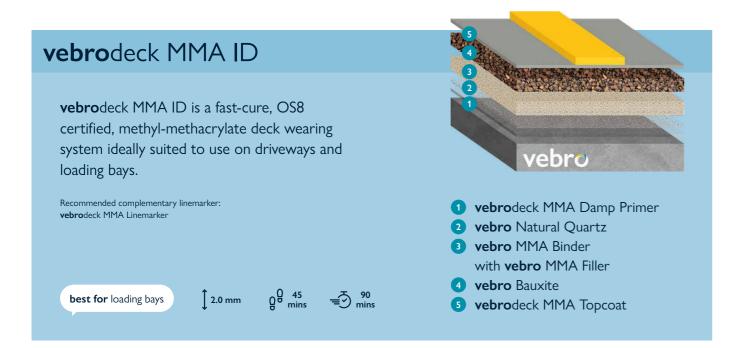


fast cure MMA floor coating systems





deck coatings & demarcation





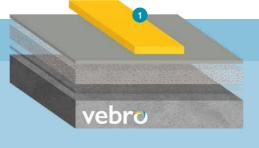
vebrodeck MMA Linemarker is a pigmented, roller applied linemarker for use in conjunction with **vebro**deck MMA coating systems.







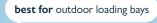




1 vebrodeck MMA Linemarker

vebrodeck MMA Topcoat

vebrodeck MMA Topcoat is a heavy-duty deck wearing system, designed for use on high trafficked driveways, ramps and turning circles located on external decks of multi-storey car parks and similar structures or facilities.



1.5 – 2.5 mm $\stackrel{7}{=}$ $\stackrel{45}{=}$ mins





- 1 vebro MMA Damp Primer
- vebro Natural Quartz or vebro Bauxite
- **3 vebro**deck MMA Topcoat

sub-floor & wearing screeds





but wait, there's more...

Vebro Polymers is also able to offer ancillary products including repair mortars, jointing compounds and safety linemarking products.

For more information and local availability, visit **vebro**polymers.com



vebro polymers.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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