

food & beverage processing flooring guide

vebropolymers



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

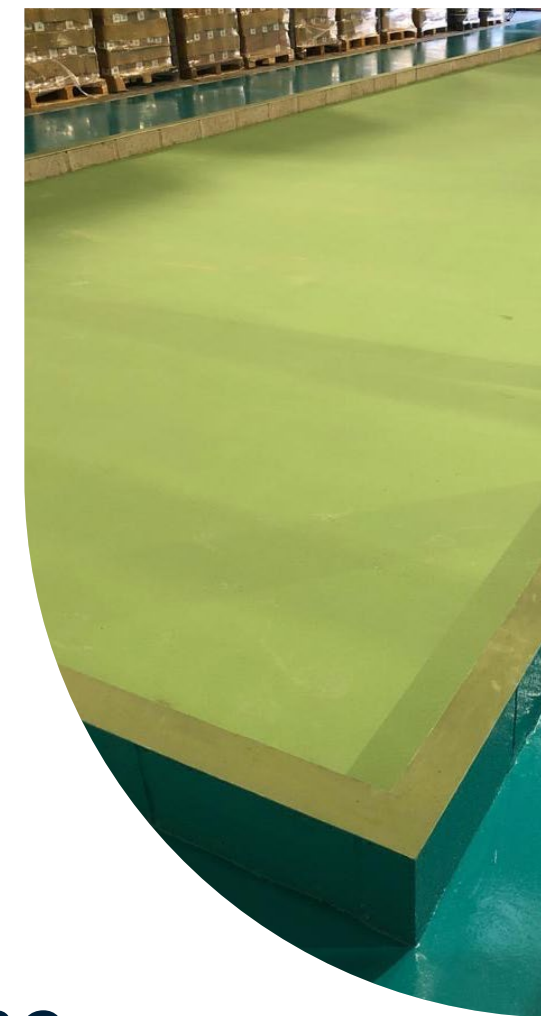
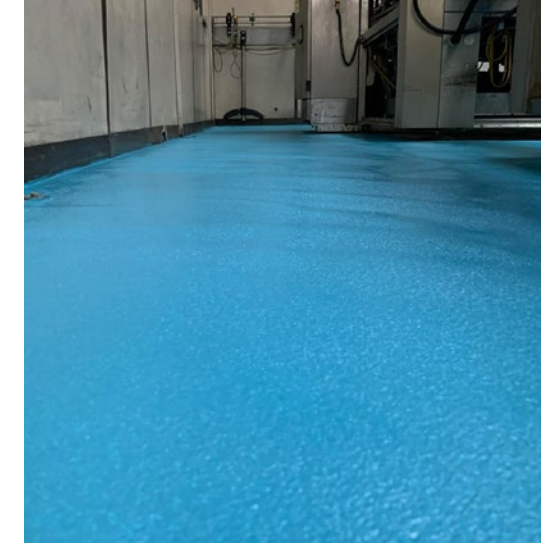


Wide range of finishes available to suit every area throughout the industrial facility

polyurethane concrete in action...

vebrocrete is ideally suited to a variety of food & beverage applications including...

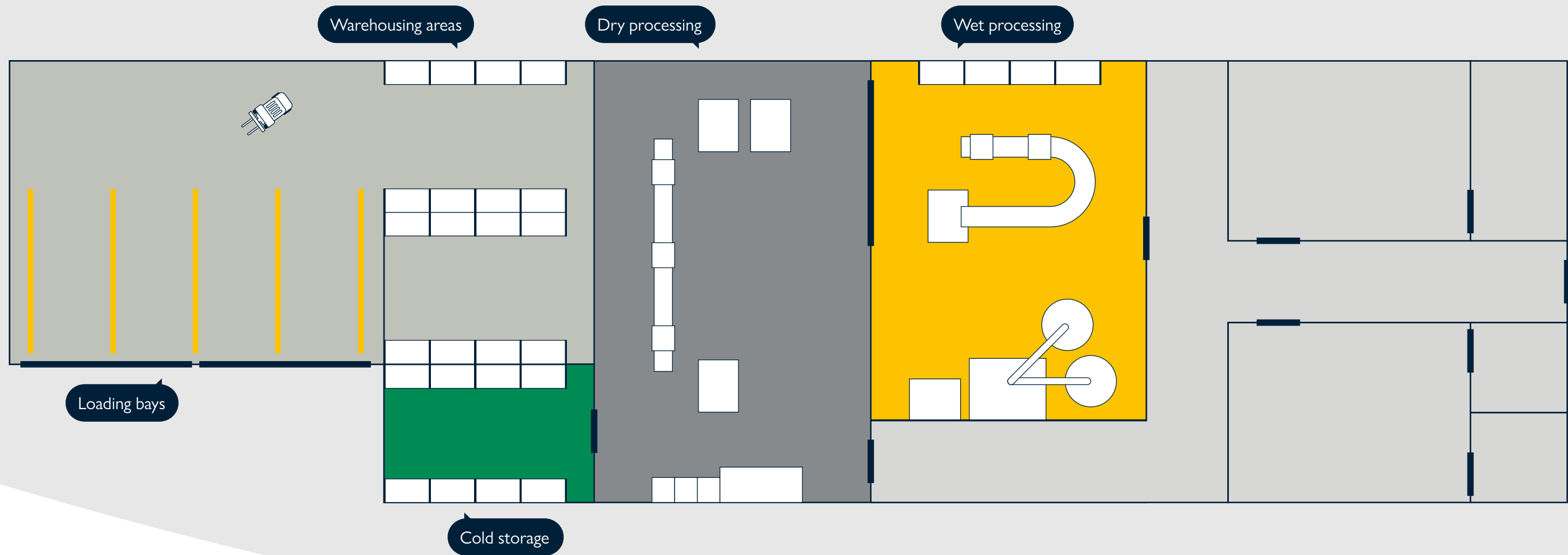
-  Food & beverage processing
-  Catering kitchens
-  Dairies & cheese production
-  Warehousing & distribution centres
-  Dry processing
-  Packaging halls
-  Laboratories & testing centres
-  Supermarket back-of-house areas



polyurethane concrete tip...

Combine **vebrocrete** coatings with coving to ensure hygienic transition between floor & wall.





food & beverage 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 food & beverage processing facilities.

haccp food safety management



Hazard Analysis and Critical Control Points (HACCP) is the most internationally recognised system based on the production of safe food.

The **vebro**crete range is designed to meet the demands of the food industry and HACCP food safety management criteria.

Vebro Polymers Floor System	Dry & semi wet processing	Wet processing	Sensitive areas	Cold storage	Loading bays	Warehousing areas
vebro crete SL (pf)	✓					✓
vebro crete MF (pf)	✓					
vebro crete ESD MF	✓		✓			
vebro crete SR (pf)	✓	✓		✓	✓	
vebro crete RT (pf)		✓		✓	✓	

vebrocrete systems overview

Performance criteria	vebrocrete SL (pf)	vebrocrete MF (pf)	vebrocrete SR (pf)	vebrocrete RT (pf)	vebrocrete Cove (pf)*
Best for...	Light dry processing	Dry processing	Wet & dry processing	Wet processing & cold storage	Floor-to-wall joints
Thickness	2.0 – 3.0 mm	3.0 – 4.0 mm	4.0 mm	6.0 – 9.0 mm	4.0 – 9.0 mm
Finish	S	S	T	T	S
FeRFA Type BS 8204-6	5	7	8	8	-
Coverage	3.60 kg/m ² at 2.0 mm 5.40 kg/m ² at 3.0 mm	5.70 kg/m ² at 3.0 mm 7.60 kg/m ² at 4.0 mm	5.70 kg/m ² followed by full Natural Quartz broadcast and PU Coating at 0.60 kg/m ²	12.00 kg/m ² at 6.0 mm 18.00 kg/m ² at 9.0 mm	2.80 kg / lm at 4.0 mm 5.60 kg / lm at 9.0 mm
Working time**	20 – 25 minutes	20 – 25 minutes	5 – 7 minutes	10 – 15 minutes	20 – 25 minutes
Speed of cure At 20°C	Light foot traffic: 12 hours, Light wheeled traffic: 24 hours, Heavy duty traffic: 48 hours, Full chemical cure: 7 days				
Temperature resistance***	5 – 65°C at 3.0 mm	-5 – 70°C at 3.0 mm -15 – 90°C at 4.0 mm	-15 – 90°C at 4.0 mm	-25 – 100°C at 6.0 mm -45 – 120°C at 9.0 mm	Resistant to cleaning processes up to 90°C dependent on thickness
Compressive strength EN 196 / ASTM C109	50 N/mm ²	50 N/mm ²	50 N/mm ²	58 N/mm ²	27 N/mm ²
VOC Content	2.85 g/l	2.71 g/l	Dependent on coating	1.78 g/l	1.76 g/l
Slip resistance† TRLL Pendulum Slip Test / DIN 51130	 Smooth Dry >40 / R9	 Smooth Dry >70, Wet >21 / R9	 Fine sand texture Dry >40, Wet >40 / R9	 Coarse flint texture >R10	-

polyurethane concrete colours



The typical physical properties given above are derived from testing in a controlled laboratory environment at 20°C. Results derived from testing field applied samples may vary dependent upon site conditions. The slip resistance figures given above are affected by application techniques and prevailing site conditions. Slip resistance can reduce over time due to poor maintenance, general wear or surface contaminants. Good housekeeping practices should be observed. *Assumes a 100.0 mm high, 50.0 mm radius cove, 100.0 mm out from the wall. **Approximate usable working life of material following mixing and immediate spreading as per the application instructions. ***If subject to frequent thermal shock and cycling, a good quality substrate is essential. †Slip-resistance can be adjusted to suit service criteria and requirements.

vebrocrete in action...

Vebro Polymers' range of high performance PU concrete is ideally suited to a variety of food & beverage applications, and has been chosen by clients across the globe, including...





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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vebrocrete for Food & Beverage Processing Flooring Guide [Vebro Polymers] EN-ASIA 14/02/25