

pharmaceutical facilities flooring guide

a big **hello** from vebro

Vebro Polymers is a supplier of polymer flooring, specialist coatings, pump screeds, rapid-drying screed additives and car park deck wearing solutions. Our products and systems have been expertly designed for use in a wide variety of applications including...



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

our big promise



Quality



Agility



Reliability

Vebro Polymers has been formed by like-minded individuals who — at the time — had over 200 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.

vebropolymers.com

peace of mind throughout your project

Vebro Polymers is proud to work with a select group of applicator partners in its local territories — a network of approved specialist resin flooring contractors who we're confident will follow the appropriate preparation and application methods to deliver a fit-for-purpose, long-lasting floor in your facility.

global team, local expertise

Founded in the UK, Vebro Polymers has grown to serve local markets across the world. For local contact information, visit **vebro**polymers.com

our STAR+ approach

The team at Vebro Polymers are committed, right from the beginning of your flooring project through to aftercare. We work closely with our applicator partners to deliver on all the key stages of your project.



site survey & specification

Before any flooring works begin on site, the Vebro team, or one of our partners, will visit the site to complete a detailed and thorough site survey. This will allow our technical experts to produce a bespoke flooring specification that not only delivers on your specific service criteria, but also takes into consideration the substrate, condition, budget and construction schedules.



tracking

The team at Vebro understands the importance of each key stage in flooring application. That's why we work closely with our applicator partners throughout each project to ensure that every stage is delivered to the highest of standards.



application

At Vebro Polymers, we only work with experienced, trusted applicator partners and we're confident in their ability to install a fit-for-purpose floor coating system that meets the service criteria of your facility.



review

Once the floor is installed on site, our team will ensure everything is completed to our high standards and, all packaging waste is correctly disposed of in line with government regulations and the floor is turned over to the client or follow-on trades.



+aftercare

Floor maintenance requirements will differ depending on your specific environment, the type of floor installed and how it is used each day. We work alongside our applicator partners to share with you the best practice for keeping your floor in top condition.

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
---------------------------	---

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 finishes that withstand frequent heavy foot traffic



Easy to clean, simply wipe away spillages with a damp cloth or mop



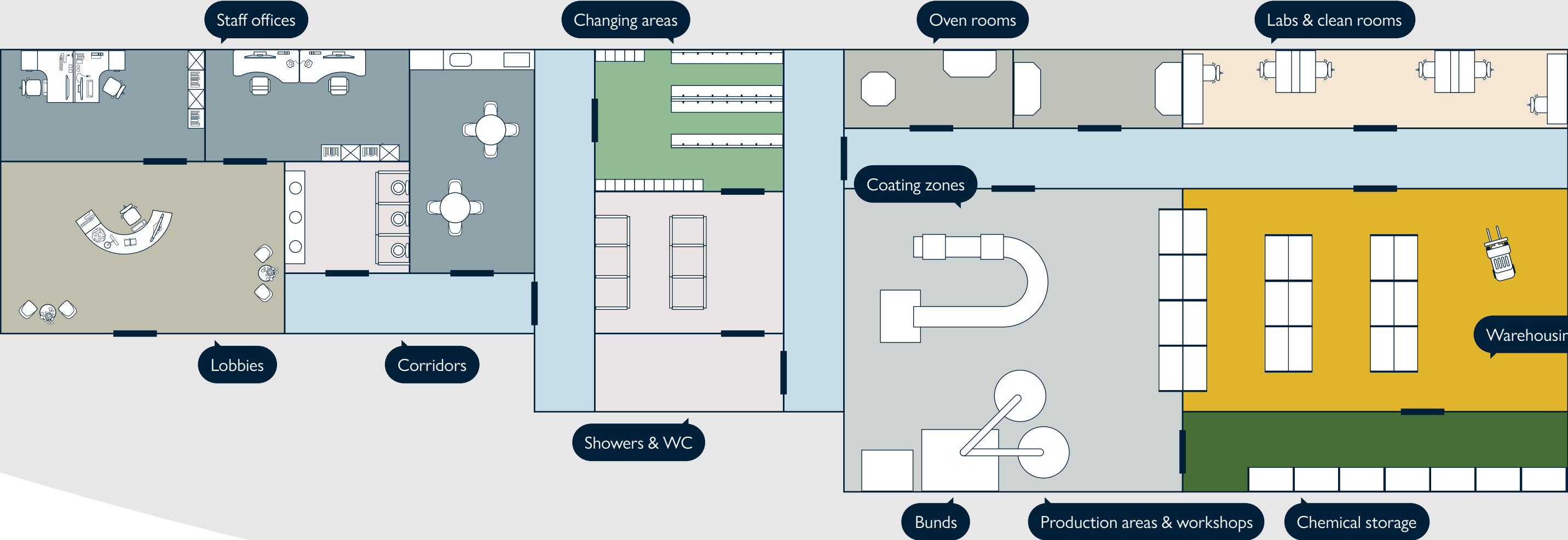
Slips resistant finishes that reduce the risk of slips and trips across the facility



Low maintenance and easy to repair, reducing costly and disruptive shutdowns



Antistatic and AgBB certified low emissions coatings ideally suited to pharmaceutical facilities



pharmaceutical 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 pharmaceutical production & processing facilities.

level with us...

If your substrate needs some attention, **vebro**screed Renovate & **vebro**screed Industrial are also available should any levelling be required prior to the installation of polymer finishes! Contact the team on hello@vebropolymers.com or call +44 (0) 1618 738 396

Vebro Polymers Floor System	Production areas & workshops	Oven rooms	Coating zones	Laboratories & clean rooms	Solvent & chemical storage	Bunds	Dispensaries	Warehousing	Corridors	Lobbies	Staff offices	Showers & WC	Changing areas
vebrostatic ESD SL	✓			✓				✓					
vebrostatic ESD Quartz	✓			✓									
vebroflex Comfort UV Plus				✓			✓			✓			
vebroflex Decorative UV Plus									✓	✓			
vebrospeed Flake									✓		✓		✓
vebrospeed Quartz / SR												✓	
vebrores EP HBC	✓							✓					
vebrores EP SL				✓					✓				
vebrores EP Quartz Classic	✓			✓			✓					✓	
vebrocrete SL / MF	✓							✓					
vebrocrete HF / RT		✓			✓	✓							
vebrocrete ESD Terrazzo	✓		✓	✓	✓								
vebro Classic Terrazzo										✓	✓		

pharmaceutical floor systems guide

Ranging from antistatic systems for electrostatic sensitive environments and low-emissions coatings, through to fast cure MMA and heavy duty, chemical resistant PU concrete finishes, Vebro Polymers offers a complete range of resin flooring materials for pharmaceutical facilities.

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 vebropolymers.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 type

Working time

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 vebropolymers.com

antistatic dissipative & conductive floor coating systems

vebrostatic ESD SL (Conductive / Dissipative)

vebrostatic ESD SL is a pigmented, solvent-free, self-smoothing, epoxy flooring system, designed to either gradually dissipate electrostatic discharge (Dissipative) or immediately dissipate electrostatic discharge in highly sensitive areas (Conductive).

Both conductive and dissipative systems are suited to use in areas subject to fire and explosion risk, including flammable solvent stores.

vebrostatic ESD SL (Conductive) meets EN 1081, EN 61340-5-1; $5 \times 10^4 - 1 \times 10^9 \Omega$.
vebrostatic ESD SL (Dissipative) meets EN 61340-5-1, EN 61340-4-1 & EN 61340-4-5.



best for production areas, workshops, warehousing, labs & clean rooms

↑ 1.0 – 2.0 mm

20-25 mins

24 hrs

28 days



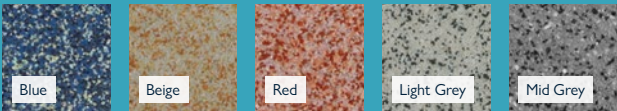
- 1 **vebro** EP Primer
- 2 Self-adhesive copper tape
- 3 **vebro** EP ESD Primer
- 4 **vebro** EP ESD SL (Conductive) or **vebro** EP ESD SL (Dissipative)
- 5 **vebro** PU ESD Seal (Matt)

vebrostatic ESD Quartz (Conductive)

vebrostatic ESD Quartz (Conductive) is a decorative, quartz-based, epoxy flooring system, designed to immediately dissipate electrostatic discharge in highly sensitive areas.

vebrostatic ESD Quartz (Conductive) is used in areas subject to fire and explosion risk, including flammable solvent stores.

Meets EN 1081, EN 61340-5-1; $5 \times 10^4 - 1 \times 10^9 \Omega$.



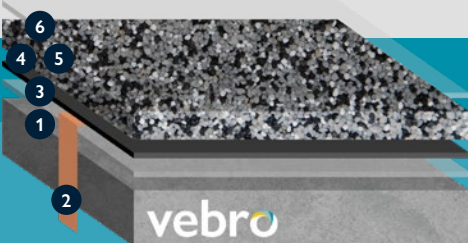
best for production areas, workshops, labs & clean rooms

↑ 4.0 mm

20-25 mins

24 hrs

28 days



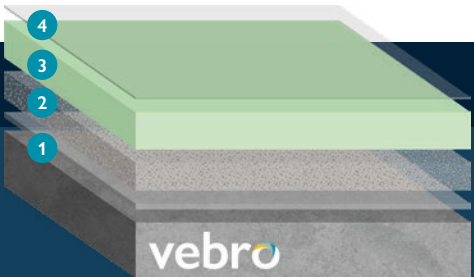
- 1 **vebro** EP Primer
- 2 Self-adhesive copper tape
- 3 **vebro** EP ESD Primer
- 4 **vebro** EP ESD Quartz Binder with **vebro** Quartz Filler 0 & **vebro** Quartz Filler 2
- 5 **vebro** EP ESD Coloured Quartz Blends
- 6 **vebro** UR ESD Seal (Clear Gloss)

liquid vinyl comfort floor coating systems

vebroflex Comfort UV Plus

vebroflex Comfort UV Plus is a seamless, flexible, polyurethane comfort resin flooring system with a clear UV seal coat for enhanced colour stability.

vebroflex Comfort UV Plus is a liquid-applied alternative to vinyl floor coverings, providing a hygienic finish and an elastic cushioning effect underfoot.



- 1 vebro EP Primer
- 2 vebro 52 Silica Sand
- 3 vebroflex PU SL UV Plus
- 4 vebroflex PU UV WB Seal (Clear Matt)

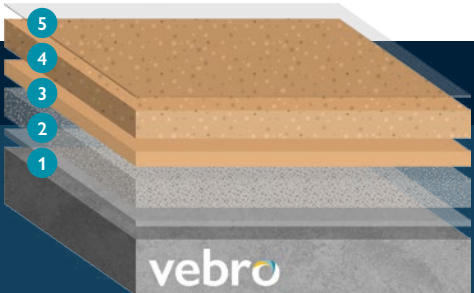
best for labs, clean rooms, dispensaries & lobbies

2.0 – 3.0 mm

vebroflex Decorative UV Plus

vebroflex Decorative UV Plus is a seamless, decorative, polyurethane comfort resin flooring system with a clear UV seal coat for enhanced colour stability.

vebroflex Decorative UV Plus is a liquid-applied alternative to vinyl floor coverings, providing a hygienic finish and an elastic cushioning effect underfoot.



- 1 vebro EP DPM Plus
- 2 vebro Natural Quartz
- 3 vebroflex PU SL
- 4 vebroflex PU SL Decorative
- 5 vebroflex PU UV WB Seal Decorative (Matt)

best for corridors & lobbies

3.0 – 4.0 mm

solid colours available

vebroflex solid colour finish systems are available in an unlimited palette of standard, non-standard and premium RAL Classic colours.

Below is just a snapshot of the colours available. For a full breakdown of the colours available in each of the vebroflex systems, contact your local Vebro Polymers team.



flexible with the finish too...

Not only are vebroflex systems available in an unlimited palette of RAL colours, they're also available in solid, decorative and motion finish options.

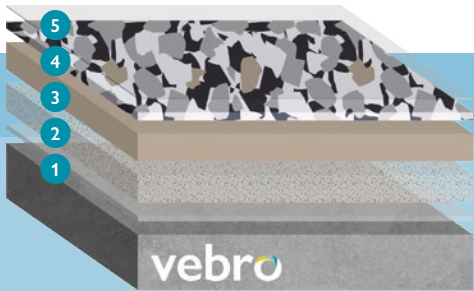


fast cure MMA floor coating systems

vebro speed Flake

vebro speed Flake is a highly decorative and durable UV-stable flooring system based on ultra fast-curing MMA (methyl methacrylate) resin technology.

Please note: Coving is available.



- 1 vebro MMA Primer
- 2 vebro Natural Quartz
- 3 vebro MMA Binder with vebro MMA Pigment & vebro MMA Filler
- 4 vebro Coloured Flake Blends
- 5 vebro MMA Seal (Clear Silk)



best for corridors, staff offices & changing areas

2.0 – 4.0 mm

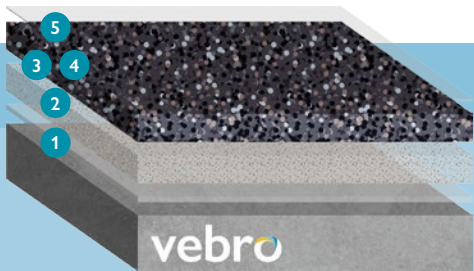
1 hr

2 – 3 hrs

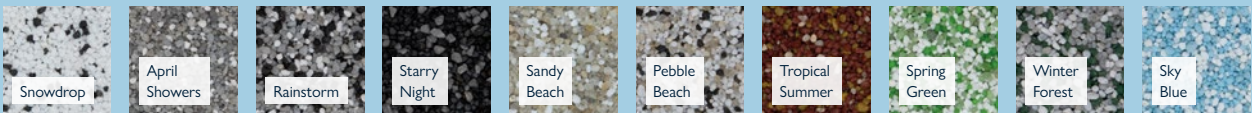
vebro speed Quartz

vebro speed Quartz is a highly durable and slip resistant, UV-stable quartz flooring system based on fast-cure MMA (methyl methacrylate) technology.

Please note: vebro speed Quartz can be modified for wet processing and trafficable surface wet areas as vebro speed Quartz SR. Coving is available.



- 1 vebro MMA Primer
- 2 vebro Coloured Quartz Blends
- 3 vebro MMA Binder
- 4 vebro Coloured Quartz Blends
- 5 vebro MMA Seal (Clear Silk)



best for showers & WC

4.0 mm

1 hr

2 – 3 hrs

epoxy floor coating systems

vebrores EP HBC

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

best for production areas, workshops & warehousing

0.35 mm

~20 mins

7 days



vebrores EP SL

- 1 vebro EP Primer (2 coats)
- 2 vebro EP SL

best for corridors

2.0 – 4.0 mm

~60 mins

16 hrs

7 days

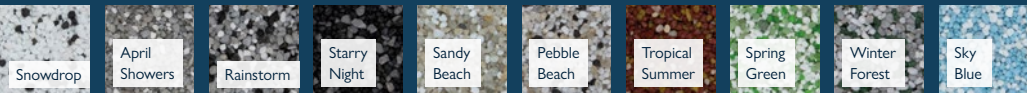


looking for colours?

vebrores systems are available in a range of Standard, Non-Standard and Premium colours. For more information, visit vebro polymers.com

vebrores EP Quartz Classic

- 1 vebro EP Primer
- 2 vebro Coloured Quartz Blends
- 3 vebro EP Quartz Binder with vebro Coloured Quartz Blends
- 4 vebro EP Quartz Sealer (Clear Gloss)
- 5 vebro PU UV WB Seal (Clear Matt)

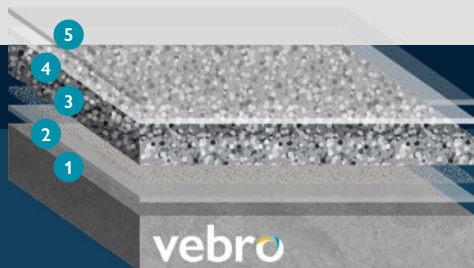


best for production, workshops, labs, clean rooms, dispensaries, showers & WC

4.0 mm

16 hrs

7 days



The background of the top half of the page is a solid yellow color. A diagonal line runs from the left edge, about one-third of the way down, to the right edge, about two-thirds of the way down. This line separates the yellow area from a blue area on the left and a white area on the right.

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.

© 2022, Vebro Group. All rights reserved.

Pharmaceutical Flooring Guide [Vebro Polymers] 21/07/22