

# pharmaceutical facilities 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

# 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



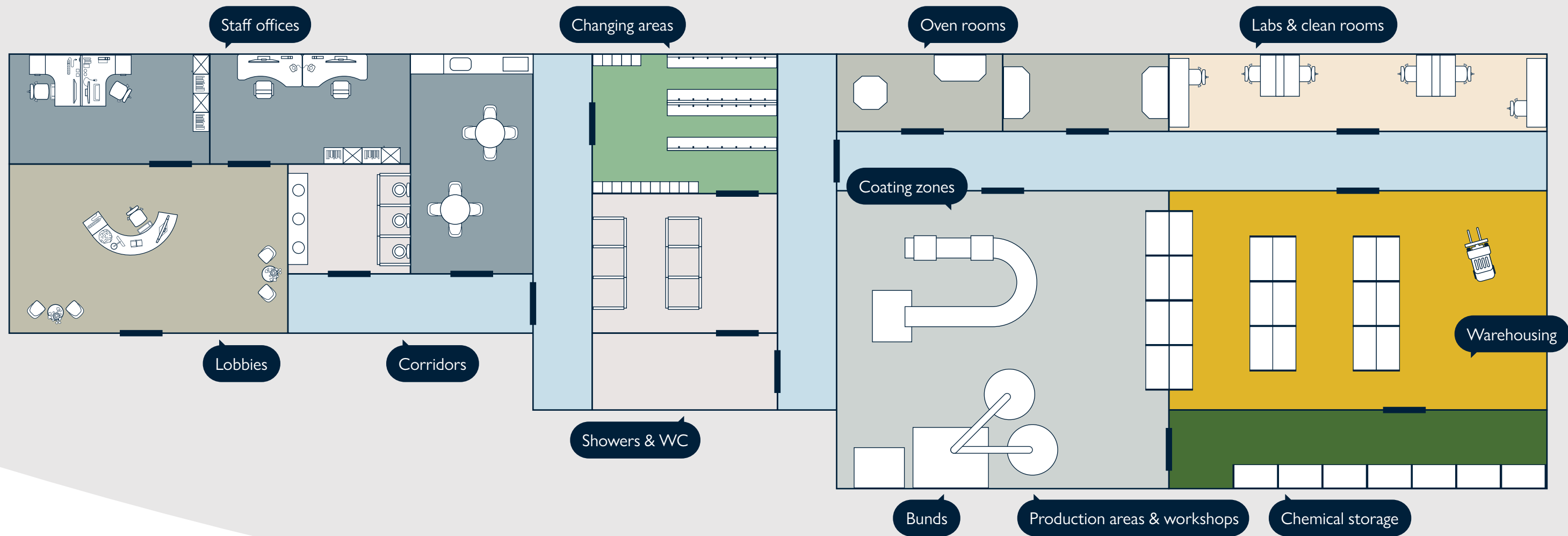
Slip resistant finishes that reduce the risk of slips and trips across the facility



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 systems are also available should any levelling be required prior to the installation of polymer finishes! Visit [vebropolymers.com](http://vebropolymers.com) for more information.

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		✓			✓	✓							
vebrocrete 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](http://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](http://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, workshops, warehousing, labs & clean rooms

↑ 1.0 – 2.0 mm

8

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

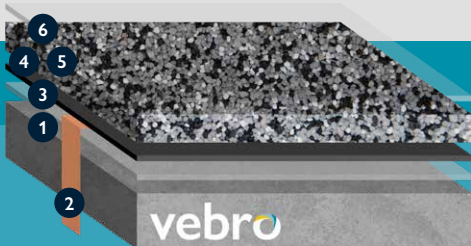
↑ 4.0 mm

8

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)**

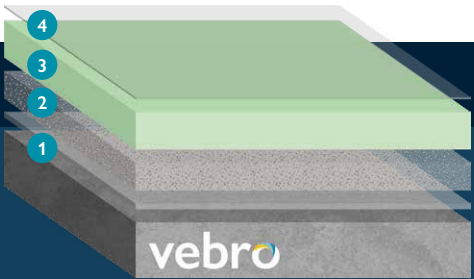


# liquid vinyl comfort floor coating systems

## 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

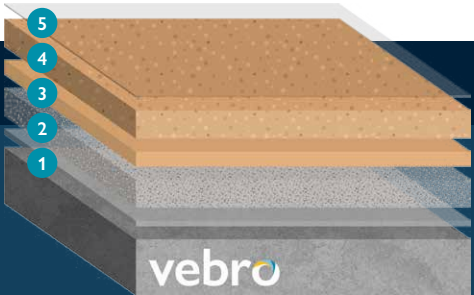
2.0 – 3.0 mm

5

## 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

5

## 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.

Beige RAL 1001	Brown Beige RAL 1011	Oyster White RAL 1013	Black Grey RAL 7021	Concrete Grey RAL 7023
Graphite Grey RAL 7024	Light Grey RAL 7035	Dusty Grey RAL 7037	Agate Grey RAL 7038	Traffic Black RAL 9017

## 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.

### solid colour finish

Available in an unlimited palette of RAL Classic colours

### decorative finish

Incorporates decorative quartz micro chippings

### motion finish

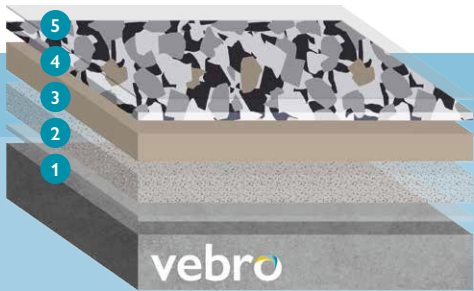
Mixes two or more colours to create a marbling effect

# 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)



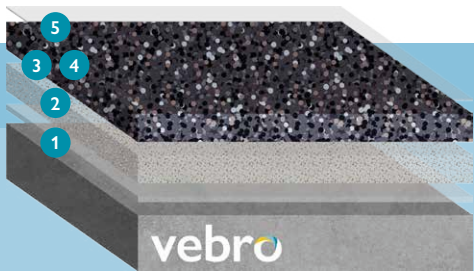
best for corridors, staff offices & changing areas

2.0 – 4.0 mm 4 1 hr 2 – 3 hrs

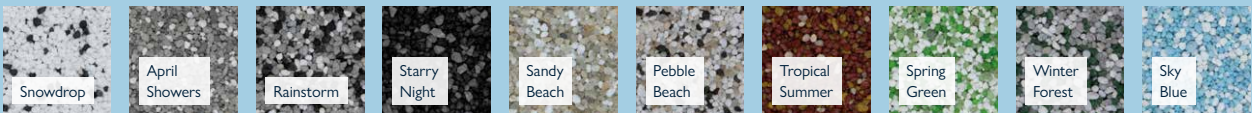
## vebro speed Quartz

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 6 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 3 ~20 mins 7 days

## vebrores EP SL

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



best for corridors

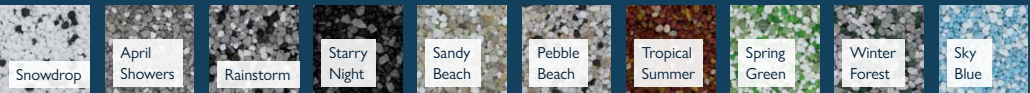
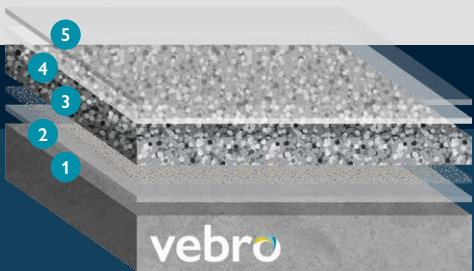
2.0 – 4.0 mm 5 ~60 mins 16 hrs 7 days

looking for colours?

vebrores systems are available in a range of Standard, Non-Standard and Premium colours. For more information, visit [vebro polymers.com](http://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 6 16 hrs 7 days



# seamless, cementitious polyurethane screeds

### vebrocrete SL / MF Ⓢ

- 1 vebrocrete PU Primer
- 2 vebrocrete PU SL or vebrocrete PU MF

\*vebrocrete SL: FeRFA Type 5, vebrocrete MF: FeRFA Type 7

best for production areas, workshops & warehousing


SL: 2.0 – 3.0 mm  
MF: 4.0 – 6.0 mm

5/7

~15 mins

12 hrs

7 days



### vebrocrete HF Ⓣ

- 1 vebrocrete PU Primer (optional)
- 2 vebrocrete PU HF or vebrocrete PU RT

best for oven rooms, chemical storage & bunds

6.0 – 9.0 mm

8

~15 mins

24 hrs

7 days



### vebrocrete RT Ⓣ

- 1 vebrocrete PU Primer
- 2 vebrocrete PU HF or vebrocrete PU RT

best for oven rooms, chemical storage & bunds


6.0 – 9.0 mm

8

~15 mins

12 hrs

7 days



# seamless epoxy terrazzo

### vebrocrete ESD Terrazzo

- 1 vebro EP Primer
- 2 Copper tape
- 3 vebro EP ESD Primer
- 4 vebrocrete PU ESD Binder with decorative aggregates
- 5 vebrocrete PU ESD Grout
- 6 vebro PU ESD Seal (Clear Matt)

best for production areas, coating zones, labs, clean rooms & chemical storage

8.0 mm

8

~20 mins

7 days





### vebro Classic Terrazzo

- 1 vebro EP Primer
- 2 vebro Natural Quartz
- 3 vebro EP Binder with decorative aggregates
- 4 vebro EP Binder
- 5 vebro PU UV WB Seal (Clear Matt)

best for lobbies & staff offices

8.0 mm

8

~60 mins

7 days





looking for a different colour?

vebrocrete ESD Terrazzo and vebro Classic Terrazzo are available in custom colours! For more information, visit [vebro polymers.com](https://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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