vebroflex: entering the comfort zone

liquid-vinyl, flexible polyurethane comfort floors

vebro polymers

vebroflex: pour the perfect liquid-vinyl comfort floor…

Poured liquid polyurethane comfort floors, sometimes known as liquid vinyl or liquid linoleum, are increasingly being used in commercial venues – healthcare environments, sporting facilities, wellness centres, office developments and mixed-use, multi-occupancy spaces.

Comfort floors like **vebro**flex are so flexible that they can be used in almost any setting where they not only deliver all of the performance benefits you would expect from a seamless resin flooring system, including durability and wear resistance, but they also look and feel fabulous underfoot – cushioning steps, radiating heat and absorbing impact sound.

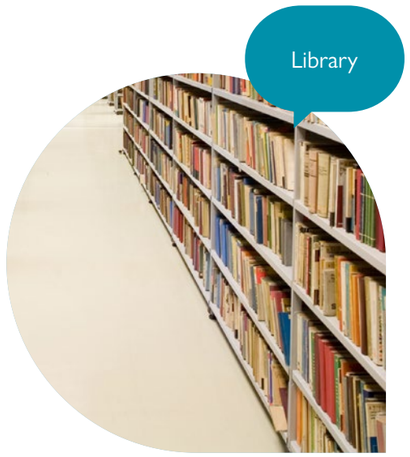
vebroflex comfort floor systems are available in an unlimited palette of decorative colours and finishes, including a solid coloured, decorative chipping or motion floor finish.

how to speak **vebro**

Each system in the **vebro**flex range has key words in its name.

These terms refer to the aesthetic features or performance benefits of each system in the **vebro**flex range. Here's what they all mean…

Term	Meaning
Comfort	Features a **solid coloured** finish.
Decorative	Incorporates **decorative micro-chippings** in the finish.
Bounce	Incorporates **PU liquid membrane** in the build-up.
UV	Features a **pigmented matt-finish, UV resistant sealer** over an **aromatic** body coat.
UV Plus	Features a **clear, matt-finish, UV resistant sealer** over an **aliphatic** body coat.



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key performance **benefits**

vebroflex offers enhanced user comfort, delivers a cushioning effect underfoot

vebroflex is ergonomically warm and can be used in conjunction with underfloor heating systems

vebroflex is formulated from natural biopolymers and meets stringent low emissions criteria

AgBB

vebroflex can include PU liquid membrane for enhanced cushioning and sound absorption (up to 12 dB)

vebroflex incorporates a durable sealer that withstands heavy use from wheeled castors

The self-smoothing, seamless finish of **vebro**flex is hygienic and easy to both clean and maintain

vebroflex delivers excellent slip resistance (R10) and is suitable for use in high trafficked areas

vebroflex is available in an unlimited range of UV stable colours and decorative finishes

keep emissions on the **down low**

low emissions AgBB

All **vebro**flex systems have been tested and certified as low emissions coatings by the Committee for the Health Assessment of Construction Products (AgBB).

The AgBB evaluation scheme sets out the quality standards for building products intended for use indoors that are relevant to health. In doing so, the scheme fosters the innovation and development of low to zero emissions products.

The AgBB scheme has been developed in compliance with a number of international standards, including ISO 16000 standards and LEED, ensuring certified products meet the criteria set out, as well as contribute to building credits where applicable.

LEED is the pre-eminent program for the design, construction, maintenance and operations of high-performance green buildings, setting out a framework and providing third-party verification for a building's green design, construction, operations and maintenance solutions.

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 **vebro**flex 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	Signal Yellow* RAL 1003	Yellow Orange* RAL 2000
Light Pink* RAL 3015	Red Violet* RAL 4002	Sapphire Blue* RAL 5003	Capri Blue* RAL 5019
Pastel Blue* RAL 5024	Reseda Green* RAL 6011	Pastel Green* RAL 6019	Pastel Turquoise* RAL 6034

flexible with the **finish** too…

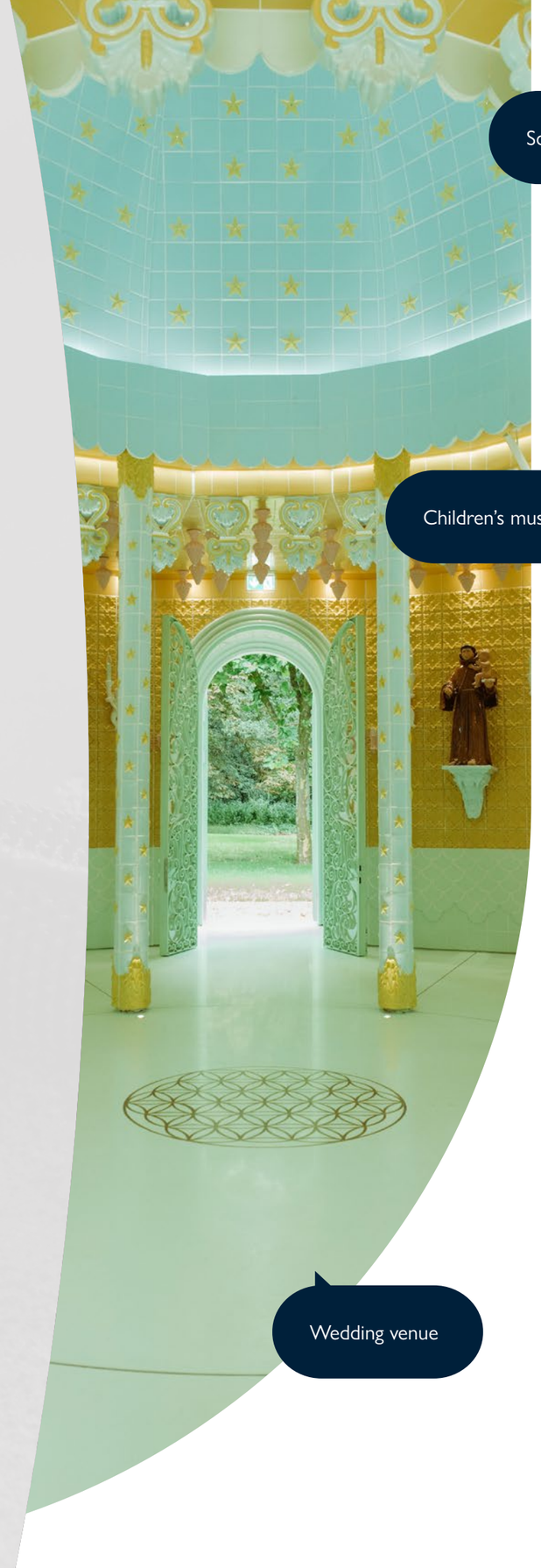
Not only are **vebro**flex systems available in an unlimited palette of RAL Classic colours, they're also available in a range of solid, decorative and motion finish options.

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

*Please note, colours marked with an asterisk will incur an additional supplement.



School

Children's museum

Hospital

Wedding venue

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flexible comfort flooring
frequently asked questions

As the popularity of polyurethane comfort flooring grows, more and more questions are asked about the unique technology.

Understanding the magic behind the flexibility, application suitability and performance criteria of **vebro**flex can be a minefield.

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.

What is resin comfort flooring?

Resin comfort flooring is made up of layers of flexible polyurethane resin that is liquid-applied onto a primed concrete substrate or alternatively a rubber mat, rubber crumb or cork underlay.

Resin comfort flooring is also frequently referred to as liquid-vinyl or cushioned resin flooring. All of these terms; 'comfort', 'cushioned', 'vinyl' – make reference to the floors' somewhat unique properties of providing a cushioning effect underfoot… this quite literally makes these floors more comfortable, warmer and surprisingly soft underfoot for those using them to walk and work on.

Can resin comfort floors be used in industrial facilities?

In a nutshell, yes. Although typically installed in institutional and commercial venues, comfort resin flooring offers the same safety benefits enjoyed by high-build and self-smoothing polyurethane flooring systems such as excellent durability, chemical, UV and slip-resistance.

Where can resin comfort floors be installed?

Resin comfort floors have become increasingly popular in institutional facilities over the last few years including schools, colleges, healthcare, medical-care and public leisure facilities.

Whilst being tough and durable, resin comfort floors are also easy to clean which makes them a great choice in these sectors. Resin comfort floors provides the ideal solution for all areas including; entrance foyers, service corridors, classrooms, hospital wards, recreation areas and laboratories.

What are the advantages of resin comfort floors over alternative floor coverings?

Major benefits of resin comfort floors include the reduced risk of cracking due to the increased flexibility of the polyurethane resin and a reduction in noise transmission caused by footfall in multi-level spaces.

Resin comfort floors are also extremely hygienic and very easy to clean given their seamless and smooth finish – plus they come in a vast (virtually limitless) range of colours, decorative effects and unique motion patterns.

The durability of resin flooring makes it more cost-effective when compared with other flooring systems such as tiles, sheet vinyl and linoleum, it's more resilient, prone to wear and tear and therefore generally lasts a lot longer.

What is the life expectancy of resin comfort floors?

With correct care and maintenance, resin comfort floors can last well in excess of 10, 15, 20 years, even longer still with the routine refurbishment of the topcoat. At the end of their lifespan, resin comfort floors can simply be overlaid whereas with sheet vinyl or linoleum this typically needs to be removed and disposed of.

Resin comfort floors have a very cost-effective life-cycle profile in comparison to alternative floor coverings, albeit a higher square metre rate install cost, reduced maintenance and energy costs over time combined with a longer lifespan makes resin comfort floors the economical choice over the footprint of its service life.

Why would I include a PU liquid membrane in the build-up of resin comfort floors?

Including a PU liquid membrane within the build-up of comfort resin floors simply enhances all of the major benefits offered by this type of flooring. The inclusion of this membrane makes the floor even more comfortable to walk and work on and also significantly improves acoustics – particularly between floors – deadening unpleasant noise transfer (think of that horrendous screeching noise when the bell rings and you've got 35 kids pushing their chairs under their desks right above you!).

How are resin comfort floors installed?

Comfort floors should be installed by experienced applicators in the field of resin flooring systems. Any cracks in the substrate should be bandaged or a levelling screed should be used to ensure a smooth, level surface prior to the installation of polyurethane comfort flooring. Comfort resin floors act like a skim and will highlight any imperfections in the substrate when cured if preparation isn't taken seriously.

The area needs to be sealed prior to installation, with all windows and doors firmly closed, as well as free from any moisture or dust particles. If underfloor heating is incorporated into the substrate, this should be switched on and set to roughly 22°C before installation can begin. Most resin comfort floors are two to three-layer systems and typically a day is recommended between each coat.

vebroflex range overview

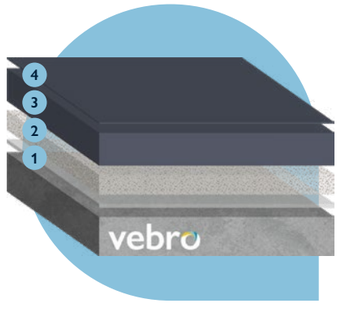
Systems in the **vebro**flex range of polyurethane comfort flooring systems are suited to a variety of applications.

All systems are highly flexible and comply with B_{fl}-s1 in addition to offering excellent crack-bridging properties, impact sound resistance up to 12 dB.

technically speaking…

Looking for technical information? Full profiles for each of the flooring systems **vebro**flex PU comfort range can be found in the technical datasheets. For the latest technical data, please visit **vebro**polymers.com

comfort systems



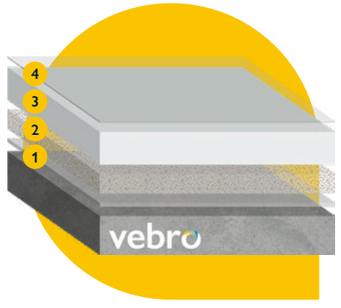
vebroflex Comfort UV

↕ 2.0 – 3.0 mm

Aromatic body coat, with a pigmented aliphatic seal coat.

system design

1. **vebro** EP Primer
2. **vebro** 52 Silica Sand
3. **vebro**flex PU SL
4. **vebro**flex PU UV WB Seal (Matt)



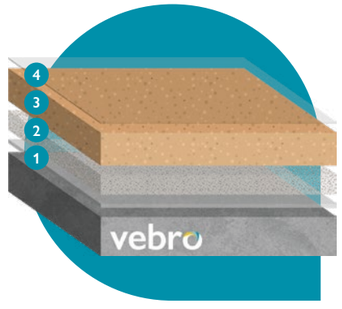
vebroflex Comfort UV Plus

↕ 2.0 – 3.0 mm

Aliphatic body coat, with a transparent aliphatic seal coat.

system design

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



vebroflex Decorative UV Plus

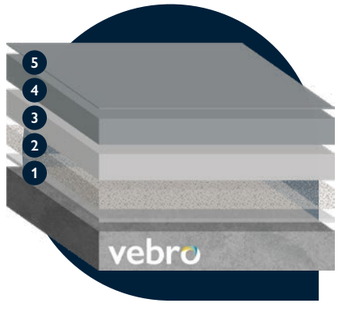
↕ 3.0 – 4.0 mm

Decorative aliphatic body coat with a transparent aliphatic seal coat.

system design

1. **vebro** EP DPM Plus
2. **vebro** Natural Quartz *(0.3 – 0.8 mm)*
3. **vebro**flex PU SL Decorative
4. **vebro**flex PU UV WB Seal (Clear Matt)

cushioned systems



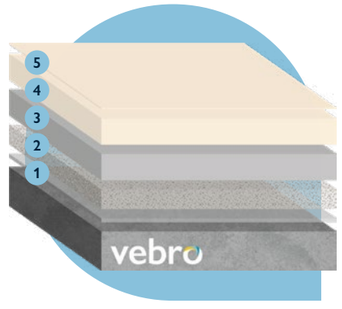
vebroflex Bounce UV

↕ 4.0 mm

Aromatic body coat, with a pigmented aliphatic seal coat on a flexible, liquid-applied PU membrane.

system design

1. **vebro** EP Primer
2. **vebro** 52 Silica Sand
3. **vebro**flex PU Liquid Membrane
4. **vebro**flex PU SL
5. **vebro**flex PU UV WB Seal (Matt)



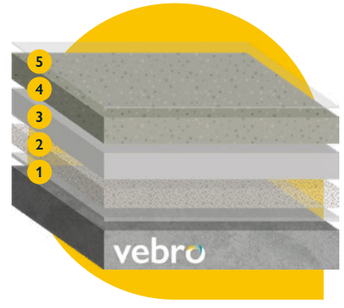
vebroflex Bounce UV Plus

↕ 4.0 mm

Aliphatic body coat, with a transparent aliphatic seal coat on a flexible, liquid-applied PU membrane.

system design

1. **vebro** EP Primer
2. **vebro** Natural Quartz *(0.3 – 0.8 mm)*
3. **vebro**flex PU Liquid Membrane
4. **vebro**flex PU SL UV Plus
5. **vebro**flex PU UV WB Seal (Clear Matt)



vebroflex Decorative UV Bounce

↕ 5.0 mm

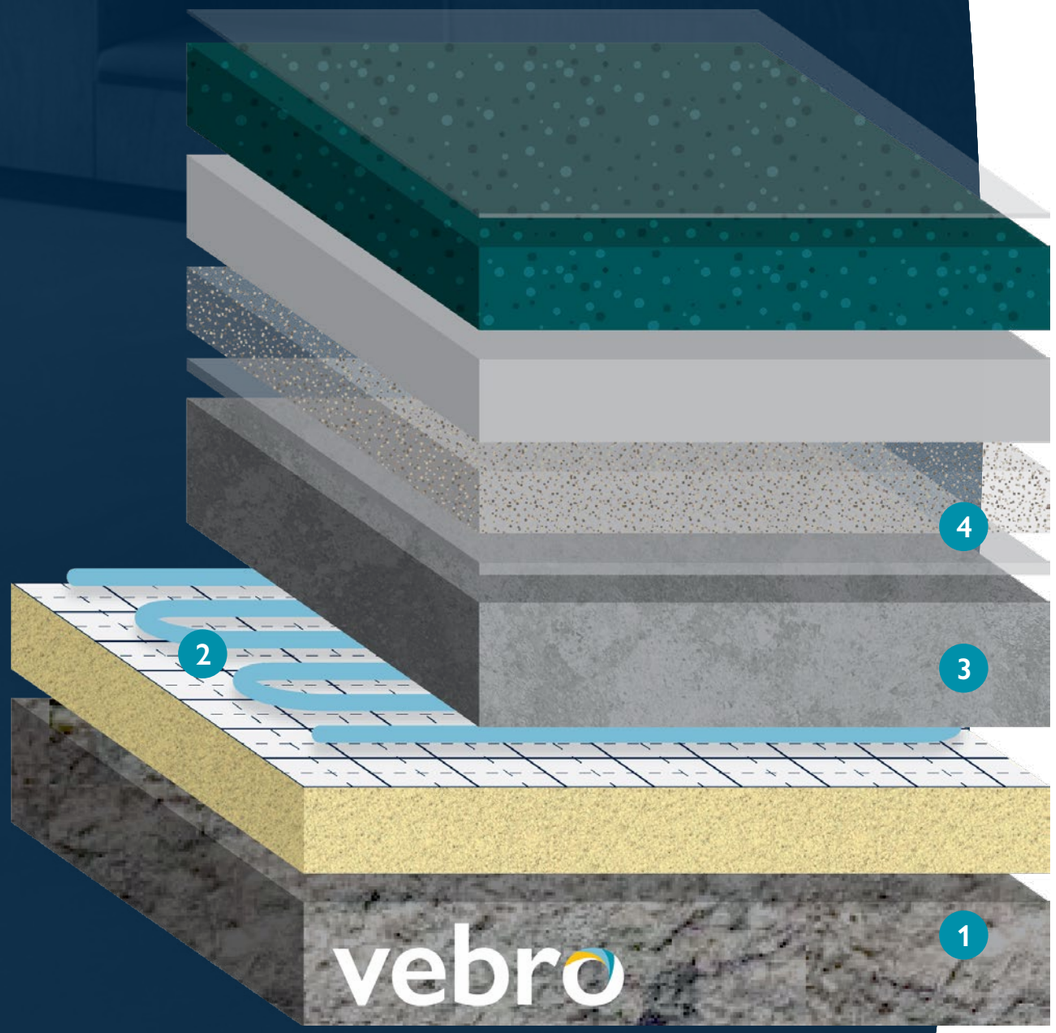
Decorative aliphatic body coat with a transparent aliphatic seal coat on a flexible, liquid-applied PU membrane.

system design

1. **vebro** EP DPM Plus
2. **vebro** Natural Quartz *(0.3 – 0.8 mm)*
3. **vebro**flex PU Liquid Membrane
4. **vebro**flex PU SL Decorative
5. **vebro**flex PU UV WB Seal (Clear Matt)

it starts at the **substrate** & ends with the **finish**

From substrate repair and crack bandaging, through to cementitious levelling screeds, underfloor heating and PU liquid comfort flooring systems, Vebro Polymers has all your flooring needs covered.



1. Prepared substrate
2. **vebro** underfloor heating system
3. **vebro**screed cementitious smoothing underlayment
4. **vebro**flex floor coating system

flexible resin comfort floors vs. sheet vinyl flooring

Resin comfort floors are increasingly being used in commercial venues, cushioning steps, radiating heat and absorbing impact sound (up to 12 dB).

A popular alternative to flexible polyurethane resin comfort flooring is sheet vinyl flooring, which also comes in a wide range of colours and decorative options, as well as providing a soft feel underfoot, but ***how do these two materials stack up from a performance perspective?***

comfort flooring	sheet vinyl flooring
Durability	
Offers excellent durability, temperature and chemical resistance as well as a much longer lifespan to provide value for the long-term.	Offers significantly reduced thermal, wear and chemical resistance. Easily damaged and some cleaning products can take the sheen off the finish.
Cleanability	
Seamless, impervious, smooth, inherently hygienic, easy to clean, sanitise and maintain – simply mop or wipe liquid spillages away.	Liquid spillages will permeate the material, making rips and tears more likely to occur as well as encouraging mould and mildew to form.
UV Stability	
Offers excellent UV resistance and stability, comfort floors can incorporate an aliphatic seal and body coat that will not fade or yellow over time.	UV exposure will fade vinyl flooring – fast! Rubber-backed mats or rubber soled shoes scuffing the floor causes a chemical reaction that permanently discolours the vinyl.
Environmental Credentials	
vebroflex polyurethane comfort flooring systems have been formulated from natural biopolymers and meet stringent (AgBB) criteria for low emissions coatings.	The manufacture of vinyl flooring can cause toxic out-gassing to occur after the floor is installed. This can release VOCs that can lead to negative health issues!
Sustainability	
Can be resealed and refreshed over time to extend the lifespan of the floor, or at end-of-service, simply covered or coated over.	Non-biodegradable rarely recycled and often disposed of in landfill sites. Once damaged, requires ripping up and replacing!

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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.