vebro materials & sustainability

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

industrial & manufacturing

food & beverage

parking garages

commercial venues

prison buildings

shopping centres

institutional buildings

mixed-use developments

transport & infrastructure

external areas

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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.

building sustainability for our future

Vebro Polymers is deeply committed to forging a path of sustainability in the polymer flooring industry.

Our range of polymer flooring, specialist coatings, rapid-set cementitious underlayments and car park deck wearing solutions reflects our understanding of the broader environmental landscape and our determination to make a positive difference.

Our approach to sustainability is rooted in authentic action. Every choice we make has an impact, and this understanding drives our decisions from the ground up. From sourcing materials to refining manufacturing processes, we meticulously assess each step of our operations to minimise adverse effects on the environment.

Vebro HQ (Asia)
Kuala Lumpur, Malaysia

Vebro HQ (UK)
Manchester, England

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a philosophy of **innovation**

Innovation is at the cornerstone of our sustainability philosophy. Our team of experts remains dedicated to exploring innovative technologies and methods, all with the aim of reducing our ecological footprint while maintaining the quality and effectiveness that our customers rely on.

working together for better

Collaboration is at the heart of our mission. By fostering partnerships with industry peers, associations and experts, we create a collective momentum towards sustainability. Through this commitment to learning from one another, we believe we can drive meaningful change that benefits the industry as a whole.

LEED: leadership in energy & environmental design

The Leadership in Energy & Environmental Design (LEED) scheme is a robust framework dictating sustainable and ecologically conscious building practices.

Its scope encompasses impartial validation across the entirety of green buildings' lifecycles, ensuring adherence to stringent benchmarks for energy efficiency, prudent resource employment and minimisation of environmental footprints.

vebro materials & LEED credits

Vebro Polymers' product range has been meticulously developed to aid building proprietors in acquiring LEED credits, offering versatile pathways to credit attainment.

Our offerings seamlessly integrate within strategies that amplify energy efficiency, enhance indoor air quality, and promote the utilisation of sustainable materials.

By embracing LEED principles through the integration of Vebro Polymers products, building proprietors assume a pivotal role in propelling more sustainable construction practices and nurturing an environment built on enduring ecological values.

- Product is more energy-efficient than similar products
- Product is more water-efficient than similar products
- Product contains post-consumer recycled content
- Product is recyclable or biodegradable after use
- Product is more durable or requires less maintenance than similar products
- Product contributes to LEED 2009 or LEED V4 credits

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LEED & sustainable flooring

indoor environmental air quality	**EQ 4.2** *Low Emitting Materials*	Vebro Polymers' materials qualify as "low emitting materials", nearly all emitting zero VOC.
materials & resources	**MR 1.1 and/or 1.2** *Building Reuse*	Vebro Polymers' materials can be used to rehabilitate existing flooring.
	MR 2.1 *Construction Waste Management*	Vebro Polymers' packaging can be recycled and many materials can be supplied in IBC units.
	MR 4.1 *Recycled Content*	Many Vebro Polymers' materials contain post-consumer waste and or recycled aggregate content.
	MR 5.1 and/or 5.2 *Regional Materials*	Projects located within 500 miles of the Vebro Polymers' manufacturing facility may benefit.

low emissions coatings

low emissions AgBB

A number of Vebro Polymers products and systems have been 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 particularly low-emission 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.

Substance / Limit value after 28 days*	AgBB 2018	Belgian VOC regulation 2014	French VOC regulation A+ 2011	Afsset 2009
TVOC	≤ 1000 µg / m³	≤ 1000 µg / m³	≤ 1000 µg / m³	≤ 1000 µg / m³
TSVOC	≤ 100 µg / m³	≤ 100 µg / m³	not defined	not defined
Toloule	2900 µg / m³*	≤ 300 µg / m³	< 300 µg / m³	300 µg / m³*
Formaldehyde	100 µg / m³*	≤ 100 µg / m³	< 10 µg / m³	≤ 10 µg / m³
Acetaldhyde	1200 µg / m³*	≤ 200 µg / m³	< 200 µg / m³	200 µg / m³*
CMR substances 1A & 1B	≤ 1 µg / m³	≤ 1 µg / m³	≤ 1 µg / m³ (CMR regulation)	≤ 1 µg / m³ (CMR regulation)
R value	≤ 1	≤ 1	≤ 1	≤ 1
TVOC w/o LCI	≤ 100 µg / m³	not defined	not defined	≤ 100 µg / m³

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*European Emissions Limit Values After 28 Days. https://bit.ly/2ZPIkMs *NIK, LCI, CLI

pu comfort floors vs. sheet vinyl

indoor environmental air quality

Resin comfort floors are increasingly being used in commercial venues, cushioning steps, radiating heat and absorbing impact sound (up to 20 dB).

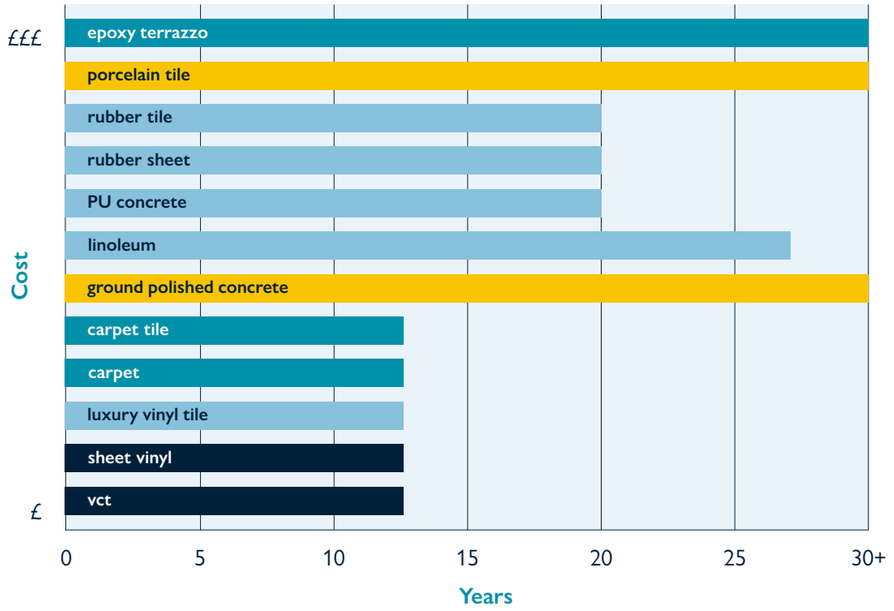
A popular alternative to flexible polyurethane resin comfort flooring is sheet vinyl flooring, which also comes in a wide range of colours and decorative options, as well as providing a soft feel underfoot, but ***how do these two materials stack up from a performance perspective?***

PU comfort flooring		Sheet vinyl
Offers excellent durability, temperature and chemical resistance as well as a much longer lifespan to provide value for the long-term.	**Durability**	Offers significantly reduced thermal, wear and chemical resistance. Easily damaged and some cleaning products can take the sheen off the finish.
Seamless, impervious, smooth, inherently hygienic, easy to clean, sanitise and maintain – simply mop or wipe liquid spillages away.	**Cleanability**	Liquid spillages will permeate the material, making rips and tears more likely to occur as well as encouraging mould and mildew to form.
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 Stability**	UV exposure will fade vinyl flooring – fast! Rubber-backed mats or rubber soled shoes scuffing the floor causes a chemical reaction that permanently discolours vinyl.
vebroflex PU comfort flooring systems have been formulated from natural biopolymers and meet stringent (AgBB) criteria for low emissions coatings.	**Environment**	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!
Can be resealed and refreshed over time to extend the lifespan of the floor, or at end-of-service, simply covered or coated over.	**Sustainability**	Non-biodegradable rarely recycled and often disposed of in landfill sites. Once damaged, requires ripping up and replacing!

lifecycle **cost saving** efficiencies

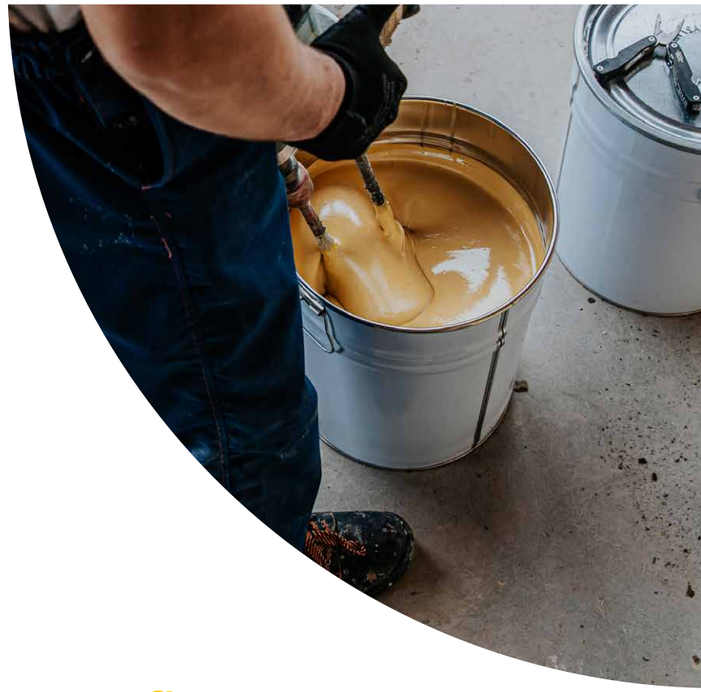
While initial outlay can be a significant factor in choosing flooring for commercial & industrial environments, it is critical to consider the lifetime cost of each option.

The floor's maintenance requirements over time coupled with the expected lifecycle are key considerations in balancing cost saving efficiencies with initial capital.



Maintenance requirements: high | high - medium | medium - low | low

materials & resources



resin flooring vs **landfill**

From cradle to grave, resin flooring can help to contribute to a reduction in waste sent to landfill.

- Laid to measure means minimal wastage on site
- Can be re-floored at end-of-life rather than ripped up
- Packaged in re-usable or recyclable containers
- Bulk IBCs are available that can be decanted on site

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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.