

slip resistant polymer flooring

wet vs. dry slip
performance explained



 **FeRFA**

 **MADE IN
BRITAIN**

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vebropolymers.com

slip resistance matters



Slips and trips are among the most common causes of workplace injuries, resulting in lost working days, increased costs and disruption to operations.

In environments where water, oils, chemicals or other contaminants are present, selecting the right flooring system is essential to maintaining a safe workplace.

Slip resistance is a critical safety property of flooring, determined by how well a surface maintains grip underfoot.

While most floors perform well in dry conditions, slip risk increases significantly when a liquid film is present.

Achieving the right balance between safety, hygiene, ease of cleaning and long-term durability requires careful consideration of the environment and the demands placed upon the floor.

how to speak vebro

At Vebro HQ, we've taken every care to simplify our product and system naming structure, but just in case, here's a short glossary of our abbreviations and acronyms that relate to slip resistance and texture...

- HBC** High-build coating (FeRFA Type 3)
- SL** Self-smoothing (FeRFA Type 5)
- SR** Slip resistant flooring
- AO** System design contains ~4% alox

why texture prevents slips in wet environments



smooth floor

- ✗ Water sits on surface
- ✗ Loss of contact
- ✗ Slip risk



textured floor

- ✓ Breaks liquid film
- ✓ Maintains contact points
- ✓ Retains grip

match the system to the risk

The objective of slip-resistant flooring is not to maximise surface texture in every environment, but to provide a level of grip that is fit for purpose. In most cases, slip risk becomes a concern only when water or other contaminants are present on the floor surface.

Vebro systems offer progressive increases in slip resistance, allowing the degree of texture to be tailored to the operating environment. This enables the level of grip to be matched to the anticipated conditions and the associated risk.

Selecting the correct flooring system helps maintain safety underfoot while avoiding unnecessary over-specification that can compromise cleanability and practicality. A balanced approach ensures the floor delivers effective slip resistance while remaining easy to maintain and suitable for its intended use.

floor coating slip resistance

R9–R13... what does it mean?

When specifying a floor surface, ensuring that it will be safe for its intended use is of critical importance.

There are a number of tests that can be carried out in order to determine the slip resistance for any number of floor coating materials, including polymer floor coating systems like **vebrores** EP HBC.

The values shared here are indicative only; PTV is the true measure of in-service performance.

Test	Overview
Pendulum Slip Test	Rated 0–100. A swinging arm sweeps over a floor area.
DIN 51130	Rated R9–R13. For general work areas. Uses ramp test method with shoes.
DIN 51097	Rated A–C. For barefoot areas. Uses ramp test method without shoes.

	R rating	slip characteristics	pendulum test value / slip resistance value
group c	R13	best	70+
	R12	good	51–70
group b	R11	better	34–51
	R10	poor	18–34
group a	R9	very poor	11–18

**vebrores
EP HBC SR**
(with 0.7 – 1.2mm quartz
aggregates between coats)
R13 / 70+

**vebrores
EP HBC**
R11 / 40

how **vebro** systems perform

standard **smooth** systems (HBC / SL systems)

- Typical uses: dry areas, light traffic
- Smooth, easy-clean finish
- Ideal for: offices, retail, dry production
- Not suited to persistent wet areas

dry
PTV >40
Good grip

wet
PTV <36
Reduced grip

AO SR systems (HBC / SL AO SR systems)

- Fine aluminium oxide dispersed within coating
- Maintains cleanability while improving grip
- One coat application
- Ideal for: light industrial, intermittent wet zones
- Not a completely uniform finish

dry
PTV >50
Strong grip

wet
PTV >40
Moderate wet safety

full **broadcast anti-slip** systems (HBC / SL SR systems)

- Uniform, slip resistant texture
- Adjust resistance by using different sized aggregate
- Designed to break through water films
- Best maintained using scrubber dryers
- Ideal for: workshops, food production, washdown
- Reliable under wet and contaminated conditions

dry
PTV >60
High grip

wet
PTV >50
Excellent wet safety

proven performance

chosen by clients across the world

Some of the world's leading brands have trusted Vebro Polymers' to deliver slip resistance, performance, durability and reliability in commercial & industrial venues.



Co-op Academy



Paul Ainsworth
at m6



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