









vebro polymers

vebrocrete: food grade polyurethane

vebrocrete (pf) is a range of phthalate-free polyurethane concrete flooring materials designed by Vebro Polymers.

The range is suitable for installation and use in food and beverage production, processing and packaging facilities as well as environments subject to thermal shock / cycling and varying degrees of chemical exposure, where it offers a wide number of performance benefits for end users and building owners over other flooring materials...

> Vebro HQ (Asia) Kuala Lumpur, Malaysia



Free from phthalates and other LBC Red List 'worst-in-class' materials



HACCP International certified as safe for use in food & beverage environments



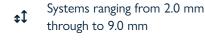
B_a-S1 fire retardant, reduces the surface spread of flame



Ideal for environments subject to thermal shock & cycling



Excellent chemical resistance properties





ESD conductive system available for EPAs



Packaged securely to prevent damage & moisture ingress during transit overseas



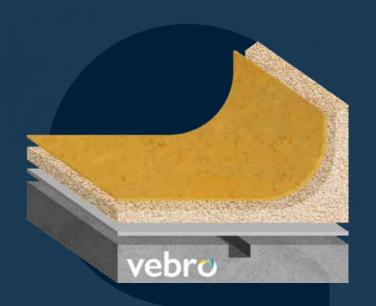
A&I Coatings New South Wales, Australia



vebrocrete SR (pf) works harder, better, faster, stronger...

vebrocrete SR (pf) is a hybrid cement modified polyurethane concrete flooring system, which has been designed to offer the ultimate in strength, safety and protection within hygiene critical environments.

The system is suitable for installation and use in food and beverage production, processing and packaging facilities as well as areas subject to thermal shock / cycling and varying degrees of chemical exposure, where it offers a wide number of performance benefits for end users and building owners over other flooring materials...



why choose **vebro**crete SR (pf)?



Can be applied to concrete with moisture up to <10% PBW



HACCP International certified



Good thermal shock resistance



Excellent impact resistance



Phthalate-free formulation, LBC 'Red List' material free



Dual curing mechanism of polymer crosslinking and cementitious hydration



Excellent chemical resistance to organic food matter



P3-P5 Slip resistance options



Resurface badly worn concrete



Quick cure and return to service



Taint free and able to be used in live production environments



Can be rendered UV stable (will limit use in live production)

vebro polymers.com

vebrocrete range overview

Performance criteria	vebrocrete SL (pf)	vebrocrete MF (pf)	vebrocrete SR (pf)	vebrocrete RT (pf)	vebrocrete Cove* (pf)
Best for	Light dry processing	Dry processing	Wet & dry processing	Wet processing & cold storage	Floor-to-wall joints
Thickness	2.0 – 4.0 mm	3.0 – 4.0 mm	4.0 – 5.0 mm	6.0 – 9.0 mm	4.0 – 9.0 mm
Finish	S	S	T	T	S
Coverage	3.60 kg/m² at 2.0 mm 5.40 kg/m² at 3.0 mm	5.70 kg/m² at 3.0 mm 7.60 kg/m² at 4.0 mm	5.70 kg/m² followed by full Natural Quartz broadcast and PU Coating at 0.60 kg/m²	12.00 kg/m ² at 6.0 mm 18.00 kg/m ² at 9.0 mm	2.80 kg / lm at 4.0 mm 5.60 kg / lm at 9.0 mm
Working time**	20 – 25 minutes	20 – 25 minutes	5 – 7 minutes	10 – 15 minutes	20 – 25 minutes
Speed of cure At 20°C	Light foot traffic: 12 hours, Light wheeled traffic: 24 hours, Heavy duty traffic: 48 hours, Full chemical cure: 7 days				
Temperature resistance***	5 – 65°C at 2.0 mm	-5 – 70°C at 3.0 mm -15 – 90°C at 4.0 mm	-15 – 90°C at 4.0 mm	-25 – 100°C at 6.0 mm -45 – 120°C at 9.0 mm	Resistant to cleaning processes up to 90°C dependent on thickness
Compressive strength EN 196 / ASTM C109	50 N/mm²	50 N/mm²	50 N/mm²	58 N/mm²	27 N/mm²
Flexural strength EN 196 / ASTM C109	20 N/mm²	20 N/mm²	20 N/mm²	15 N/mm²	7 N/mm²
Slip resistance [†] DIN 51130 Shod Ramp Test	Smooth R9	Smooth R9	Fine sand texture >R9	Coarse flint texture >R10	-

polyurethane concrete colours



The typical physical properties given above are derived from testing in a controlled laboratory environment at 20°C. Results derived from testing field applied samples may vary dependent upon site conditions. The slip resistance figures given above are affected by application techniques and prevailing site conditions. Slip resistance can reduce over time due to poor maintenance, general wear or surface contaminants. Good housekeeping practices should be observed. *Assumes a 100.0 mm high, 50.0 mm radius cove, 100.0 mm out from the wall. **Approximate usable working life of material following mixing and immediate spreading as per the application instructions. ***If subject to frequent thermal shock and cycling, a good quality substrate is essential. †Slip-resistance can be adjusted to suit service criteria and requirements.



HACCP International

HACCP International is an independent third-party certifying body that assesses the suitability of fittings, fixtures, equipment and building materials for use in food production, processing and packaging environments operating a HACCP-based food safety management programme. Vebro Polymers' **vebro**crete range of polyurethane (PU) concrete has been evaluated and certified as both compliant and safe-to-use in these scenarios.

LBC **Red List** materials

The Living Building Challenge (LBC)
Red List is a tool used to assist the
construction industry with building product
transformation. It documents the "worst
in class" materials, chemicals, and elements
known to pose serious risks to human
health and the environment with the view
to eliminating them from schemes moving
forwards. Vebro Polymers' **vebro**crete range
of polyurethane (PU) concrete has been
evaluated and is free-of any items listed on
the Red List, Priority List and Watch List.



vebrocrete in action...

Vebro Polymers' range of high performance PU concrete is ideally suited to a variety of food & beverage applications, and has been chosen by clients across the globe, including...

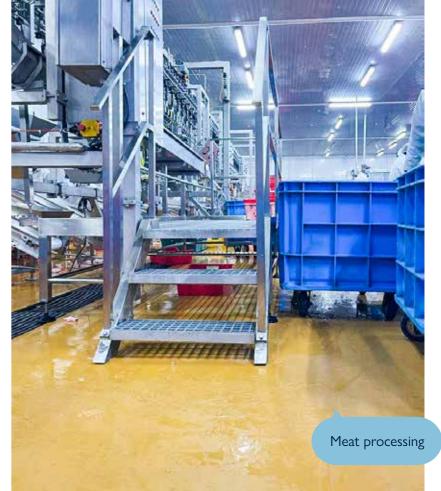






M&S



















vebro polymers.com





let's work together...



Vebro Polymers and A&I Coatings would love the opportunity to explore the possibility of working together on your food & beverage flooring project.

If this is something that you may be interested in, or if you need any more information, please do not hesitate to contact the team.

vebro polymers



w: vebropolymers.com **e:** australia@vebropolymers.com

w: aicoatings.com.au
e: helpdesk@aicoatings.com
t: 1800 819 585

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.