

vebrocrete: cement-modified, seamless polyurethane flooring systems



vebropolymers

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...



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



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



B₁-S1 fire retardant, reduces the surface spread of flame



Ideal for environments subject to thermal shock & cycling



Excellent chemical resistance properties



Systems ranging from 2.0 mm through to 9.0 mm



ESD conductive system available for EPAs



Packaged securely to prevent damage & moisture ingress during transit overseas

Vebro HQ (Asia)
Kuala Lumpur, Malaysia



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 **vebrocrete SR (pf)**?



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



Excellent chemical resistance to organic food matter



HACCP International certified



P3-P5 Slip resistance options



Good thermal shock resistance



Resurface badly worn concrete



Excellent impact resistance



Quick cure and return to service



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



Taint free and able to be used in live production environments



Dual curing mechanism of polymer crosslinking and cementitious hydration



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

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					
Coverage	3.60 kg/m ² at 2.0 mm 5.40 kg/m ² at 3.0 mm	5.70 kg/m ² at 3.0 mm 7.60 kg/m ² at 4.0 mm	5.70 kg/m ² followed by full Natural Quartz broadcast and PU Coating at 0.60 kg/m ²	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/mm ²	50 N/mm ²	50 N/mm ²	58 N/mm ²	27 N/mm ²
Flexural strength EN 196 / ASTM C109	20 N/mm ²	20 N/mm ²	20 N/mm ²	15 N/mm ²	7 N/mm ²
Slip resistance† DIN 51130 Shod Ramp Test	 Smooth R9	 Smooth R9	 Fine sand texture >R9	 Coarse flint texture >R10	-

polyurethane concrete colours

 Slate Grey (RAL 7015)	 Dusty Grey (RAL 7037)	 Traffic Grey A (RAL 7042)	 Yellow	 Green	 Blue	 Red
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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.



vebrocrete MF installed at Yeo's flagship Shah Alam processing plant in Malaysia.



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' **vebrocrete** 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' **vebrocrete** 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



FERRERO



DIAGEO



Cocado



SOFITEL
LUXURY HOTELS

vebropolymers.com

Agricultural research facility

Meat processing

Craft brewery

Coffee roastery

Food processing

Hatchery

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.

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 **A&I**
COATINGS
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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.

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