

vebrocrete: cement-modified, seamless polyurethane flooring systems



vebropolymers

vebrocrete: food grade polyurethane

vebrocrete is a range of 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...

-  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 Polymers materials are brought to India by Thermax



vebrocrete: works harder, better, faster, stronger...

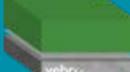
vebrocrete is a range of hybrid cement modified polyurethane concrete flooring systems, designed to offer the ultimate in strength, safety and protection within hygiene critical environments.

The range of high performance PU concrete systems 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**?

-  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)

vebrocrete range overview

Performance criteria	 vebrocrete SL	 vebrocrete MF	 vebrocrete RT	 vebrocrete Cove
Best for...	Light dry processing	Dry processing	Wet processing & cold storage	Floor-to-wall joints
Thickness	2.0 – 3.0 mm	3.0 – 4.0 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	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	10 – 15 minutes	20 – 25 minutes
Speed of cure At 20°C	Light foot traffic: 12 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	-25 – 100°C at 6.0 mm -45 – 120°C at 9.0 mm	Up to 90°C dependent on thickness
Compressive strength EN 196 / ASTM C109	50 N/mm ²	50 N/mm ²	58 N/mm ²	27 N/mm ²
Abrasion Resistance EN 13892-4 / BS 8204-2	AR 0.5 / Special Class	AR 0.5 / Special Class	AR 0.5 / Special Class	-
Slip resistance† TRLL Pendulum Slip Test / DIN 51130	 Smooth Dry >40 / R9	 Smooth Dry >70, Wet >21 / 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.



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.

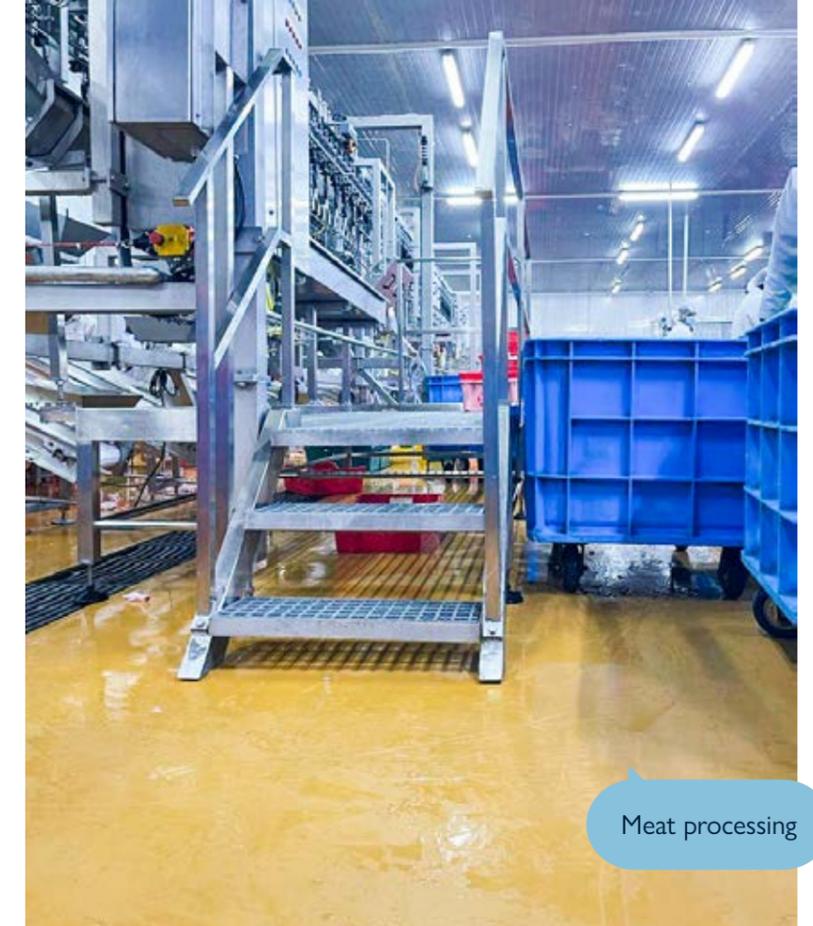
vebrocrete in action...

Agricultural research facility

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...



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Meat processing



Craft brewery



Coffee roastery



Food processing



Hatchery



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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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