

**vebro** polymers









# vebrocrete: food grade polyurethane

**vebro**crete 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...



vebro HQ

Port Klang



### global presence, local expertise

Having built up a vast wealth of experience in the global polyurethane concrete market, Vebro Polymers has designed the **vebro**crete range to tick every box for local distributors and applicator clients; stocking flexibility, competitive pricing and ease of application underpinned by all the performance benefits you would expect from a PU concrete.

### made in malaysia, supplied across the world

vebrocrete materials are manufactured in Vebro Polymers' Southeast Asian hub located in Malaysia, which offers convenient shipping routes to a wide variety of export destinations including neighbouring markets as well as those located further afield in the Pacific, Africa, South America, North America, the Middle East, India and Europe.

### worldwide specification support

From assessing the condition of the slab to considering installation logistics, evaluating service criteria and understanding the financial, regulatory and environmental implications, the **vebro** specification method guides the polymer flooring selection process for any commercial or industrial new-build or renovation project.

### why choose **vebro**crete? Free from phthalates and other ESD conductive system LBC Red List chemicals available for EPAs **HACCP** International Packaged to prevent damage certified as food-safe & moisture ingress during transit B<sub>n</sub>-S1 fire retardant, reduces Based on universal the surface spread of flame components for easy stocking Ideal for environments subject 12 months shelf life for all to thermal shock & cycling components across the range! Excellent chemical Satin finish topcoat for improved cleanability on SR systems resistance properties Systems ranging from 2.0 mm Vibrant liquid pigments as standard; through to 9.0 mm with an easy-mix sachet vebro polymers.com

### vebrocrete systems overview

	vebru	vebru	yebru	vebru	vebru		
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 – 3.0 mm	3.0 – 4.0 mm	4.0 mm	6.0 – 9.0 mm	4.0 – 9.0 mm		
Finish	S	S	T	T	S		
FeRFA Type BS 8204-6	5	7	8	8	-		
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/m² at 6.0 mm 18.00 kg/m² 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		
<b>Speed of cure</b> 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 3.0 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		
VOC content	2.85 g/l	2.71 g/l	Dependent on coating	1.78 g/l	1.76 g/l		
Slip resistance† TRLL Pendulum Slip Test / DIN 51130	Smooth Dry >40 / R9	Smooth Dry >70, Wet >21 / R9	Fine sand texture Dry >40, Wet >40 / 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 rectices 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 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...





































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**vebro**crete MF installed at Yeo's flagship Shah Alam processing plant in Malaysia.

## the LBC **Red List**ensuring our spaces free from harmful materials

For almost two decades, the International Living Future Institute has been developing the Living Building Challenge (LBC) Red List.

The goal is to ensure the buildings that we work, live and socialise in are safe and free from materials that would be harmful to us and the world around us.

One of the fundamental directives of the LBC is that a truly restorative culture errs on the side of caution and that we simply must remove the following materials from the built environment.

### **vebro**crete & the Red List

The principal categories that could be related to polyurethane concrete, or cementitious urethane slurries are antimicrobials (marketed with a health claim), phthalates (orthophthalates) and volatile organic compounds (VOCs) in wet applied products.

### HACCP food safety management

Hazard Analysis and Critical Control Points (HACCP) is the most internationally recognised system based on the production of safe food.

It is a preventive risk assessment tool that takes a careful look at food safety hazards and provides guidelines to guarantee that the facility, its equipment, staff and working processes never constitute a health or hygiene hazard.

All systems in the **vebro**crete range are HACCP International certified, offering peace of mind for end user customers that the floor in their facility meets stringent food safety criteria.



### vebrocrete flexible supply

The beauty of the **vebro**crete range for distributors and applicators is the materials' stocking flexibility.

All **vebro**crete systems are based on a universal A, B & D component, simply switch the filler C component to transform the body and thickness of the material navigating from a self-smoothing system to a trowel-down mortar or thin-film thickness topcoat.

What's more the pigment dispersion is supplied separately to ensure that no matter what the job or the colour, you will have the right material on the shelves to service the project.

	vebrocrete PU MF (pf)	<b>vebro</b> crete PU SL (pf)	vebrocrete PU RT (pf)	<b>vebro</b> crete PU Primer ( <i>pf</i> )	vebrocrete PU Matt Coating (pf)	vebrocrete PU Satin Coating (pf)	vebrocrete PU Cove (pf)
<b>vebro</b> crete Universal A ( <i>pf</i> )	2.85 kg						1.44 kg
<b>vebro</b> crete Universal B ( <i>pf</i> )	3.15 kg					-	1.58 kg
vebrocrete PU Satin Coating B (pf)	-					2.18 kg	-
<b>vebro</b> crete Filler C	13.82 kg (C#1)	11.82 kg (C#3)	13.82 kg (C#1) 12.00 kg (C#4)	2.70 kg (C#5)	2.70 kg (C#5)	1.93 kg (C#6)	13.00 kg (C Cove)
<b>vebro</b> crete Pigment D	0.18 kg			-	0.36 kg (2 packs)	0.36 kg (2 packs)	0.18 kg
Total	20.0 kg	18.0 kg	32.0 kg	8.70 kg	9.06 kg	7.32 kg	16.20 kg

### **bulk** supply

**vebro**crete Universal A and **vebro**crete Universal B are also available for bulk purchase in IBCs and 250.0 litre drums respectively. vebrocrete Universal A 950.0 kg IBCs 333 mixes

**vebro**crete Universal B

250.0 kg drums 79 mixes



#### how much on a pallet?

	Unit weight	Quantity	Net weight	Gross weight*
vebrocrete Universal A (pf)	2.85 kg	288	864.00 kg	884.00 kg
vebrocrete Universal B (pf)	3.15 kg	288	864.00 kg	884.00 kg
vebrocrete Universal A (pf)	1.44 kg	550	792.00 kg	812.00 kg
vebrocrete Universal B (pf)	1.58 kg	550	869.00 kg	889.00 kg
<b>vebro</b> crete Universal A (pf)	950.00 kg	1	950.00 kg	970.00 kg
vebrocrete Universal B (pf)	250.00 kg	4	1,000.00 kg	1,020.00 kg
vebrocrete PU Satin Coating B (pf)	2.18 kg	300	654.00 kg	674.00 kg
vebrocrete Filler C#1	13.82 kg	100	1,382.00 kg	1,402.00 kg
vebrocrete Filler C#3	11.82 kg	100	1,182.00 kg	1,202.00 kg
vebrocrete Filler C#4	12.00 kg	50	750.00 kg	770.00 kg
<b>vebro</b> crete Filler C#5	2.70 kg	100	450.00 kg	470.00 kg
vebrocrete Filler C#6	1.93 kg	100	193.00 kg	213.00 kg
vebrocrete Filler C Cove	13.00 kg	100	1,300.00 kg	1,320.00 kg
<b>vebro</b> crete Pigment Pack D	0.18 kg	1,000	180.00 kg	200.00 kg

<sup>\*</sup>Gross weight provided is based on pallet packing and is subject to change (if) should packing by crate be required.

### why vebrocrete?



#### Stocking flexibility

vebrocrete systems comprise a universal A, B & D component. Change the filler C to transform the body of the material from a thinfilm coating to a 9.0 mm mortar.



#### Excellent workability

**vebro**crete systems have been designed to perform in a wide range of application conditions, including hotter months and humid climes!



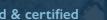
#### Resin rich, tighter finish

vebrocrete systems have a higher resin content than competitor material, therefore the material flows more easily, with prolonged workability and a tighter finish.



#### Trusted & certified

vebrocrete systems are HACCP International certified as food-safe for use in food processing environments operating a hazard-based food



safety management plan.



#### **□ □ □ Unrivalled performance**

vebrocrete systems have been designed to endure. The material is B<sub>a</sub>-S1 fire retardant, offers thermal shock resistance from -45 – 120°C at 9.0 mm and has been tested against a wide range of aggressive chemicals.



#### Dedicated supplier

Vebro Polymers is a global supplier of polymer flooring, specialist coatings and car park deck wearing solutions, founded on a simple service promise to provide the best quality, agility and reliability in the industry.

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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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