

vebrodeck: we've got car parks covered

protective polymer car park deck
wearing & waterproofing systems



vebropolymers

vebrodeck

from the bays to the basement, we've got you covered...

Multi-storey parking structures have a number of unique features that distinguish them from other buildings, including maximum spans and minimum supporting columns in order to maximise the number of vehicle parking spaces.

They are also highly exposed to the elements. This fundamental design requirement leads to a far greater risk of problems than in other buildings including...



Water ingress



Movement & cracking



Mechanical abrasion



UV & thermal shock damage



Chemical degradation

Vebro Polymers' **vebrodeck** car park decking systems range has been expertly engineered to deal with the wide range of stresses and pressures imposed on all decks of multi-storey car parking structures.

|↑| looking for linemarker?

vebrodeck PU Linemarker is available for application with **vebrodeck** systems. For more information, visit vebropolymers.com

vebropolymers.com

key performance benefits



Excellent slip resistance profile to improve safety for car park users



Excellent fire-safety classification and meets the criteria set out by B_{fl}-S1



Protects against hydrostatic pressure from the surrounding water table



Minimises tyre squeal and protects against unsightly markings from wheels



Resistance to oils, fuel, de-icing salts and other chemicals



Excellent durability, withstands heavy loads on ramps and turning circles



Huge range of vibrant colours and complementary linemarking products



Environmentally preferred coatings with minimal possible environmental footprint

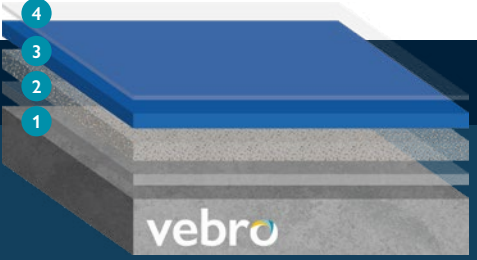
interior parking decks



vebrodeck EP ID

vebrodeck EP ID is an epoxy-based car park deck coating system designed for interior parking decks of multi-storey parking decks. Suited to internal driveways ramps & turning circles, the economic system is resistant to wheeled traffic, oils & petrol.

best for driveways & ramps 1.0 mm



- 1 vebro EP Universal Primer
- 2 40 – 80s mesh sand
- 3 vebrodeck EP TC
- 4 vebro PU UV Seal (Gloss) (optional)



vebrodeck PU ID

vebrodeck PU ID is a polyurethane-based car park deck coating system designed for interior parking decks of multi-storey parking structures. Suited to internal driveways ramps & turning circles, the system is resistant to heavy traffic, oils & petrol.

best for driveways & ramps 1.5 mm



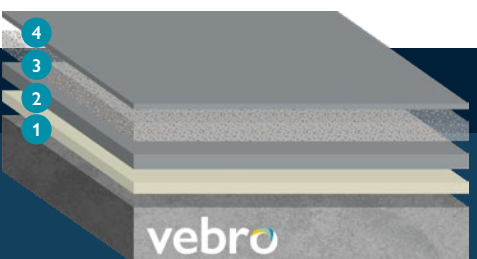
- 1 vebrodeck PU BC with 60 – 100s mesh sand
- 2 30 – 60s mesh sand
- 3 vebrodeck PU TC
- 4 vebro PU UV Seal (Gloss) or vebro PU UV WB Seal (Gloss)



vebrodeck PU ID PB

vebrodeck PU ID PB is a polyurethane-based car park deck coating system designed for parking bays in interior parking decks of multi-storey parking structures.

best for parking bays 0.5 mm



- 1 vebrodeck PU BC
- 2 vebrodeck PU TC
- 3 40 – 80s mesh sand (optional)
- 4 vebro PU UV Seal (Gloss) or vebro PU UV WB Seal (Gloss)

basement parking decks



vebrodeck ID BL

vebrodeck ID BL is a hybrid car park deck coating system designed for basement parking decks of multi-storey parking structures. The economic deck coating system is resistant to foot & wheeled traffic as well as oils & petrol.

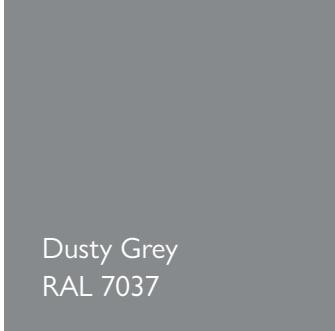
best for basement decks 4.0 mm



- 1 vebrocrete PU MF
- 2 20 – 40s mesh sand
- 3 vebrodeck EP TC or vebrodeck PU TC
- 4 vebro PU UV Seal (Gloss) or vebro PU UV WB Seal (Gloss)

core colours available

vebrodeck systems are available in a range of RAL matched colours. Below is just a snapshot of the colours available. For a full vebrodeck systems colour chart, contact your local Vebro Polymers team.

 Light Grey RAL 7035	 Dusty Grey RAL 7037	 Grass Green RAL 6010
 Oxide Red RAL 3009	 Traffic Blue RAL 5017	 Light Pink RAL 3015

green label category 032

environmental & health parameters paints & coatings

The **Green Label Category 032 for Paints & Coatings** establishes grading criteria on environmental and health parameters for paints and coating products.

The test evaluates specific environmental and health prerequisites of each product, such as reduced toxicity, recycled content and recyclability.



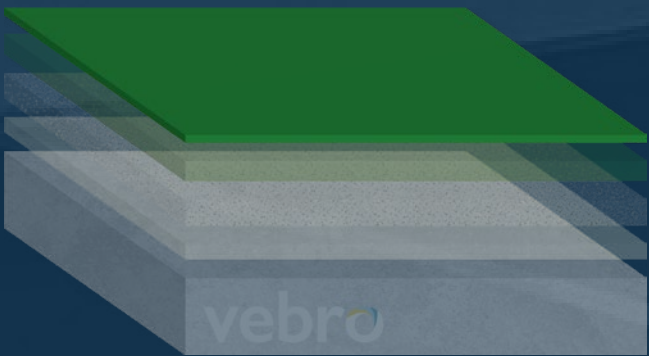
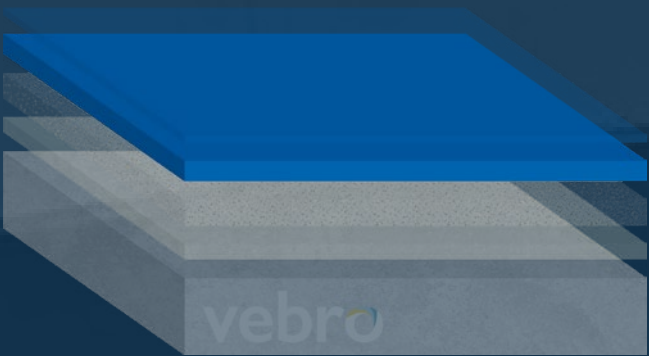
which materials are covered?

This category assesses wall and floor paints, external façade coatings, primers, undercoats, as well as anti-corrosive and energy saving or reflective paints and coatings.

- ✓ Epoxy coatings
- ✓ Powder coatings
- ✓ Solvent-based coatings
- ✓ Recycled paint
- ✓ Water-based coatings*
- ✓ PVC membrane coatings
- ✓ Acrylic surfaces

*including polymer emulsion paints.

vebrodeck environmentally preferred coatings



vebrodeck PU TC

A two-component, solvent-free, crack-bridging, polyurethane top coat designed to bind and seal aggregates within both exposed and intermediate car park deck coating systems.

performance & application benefits

- ☀ Weather resistant
- 🧴 Excellent resistance to diluted acids, alkalis, lubricants & fuels
- 🧽 Impervious, easy-to-clean, hygienic & seamless surface
- ⚙️ Excellent wear resistance & high mechanical strength

used in...

- ✓ **vebrodeck PU ID (shown)**
- ✓ **vebrodeck PU ID PB**

vebro PU UV WB Seal (Gloss)

A low viscosity, pigmented, water-based, aliphatic polyurethane sealer for epoxy or polyurethane car park deck coating systems offering colour stability and cleanability.

performance & application benefits

- 🧴 Excellent chemical resistance
- ☀ High UV colour stability
- 👍 Liquid tight, self-sealing, no need to grout
- 🔗 Excellent adhesion properties

used in...

- ✓ **vebrodeck PU ID (shown)**
- ✓ **vebrodeck PU ID PB**
- ✓ **vebrodeck ID BL**

category 032 paints & surface coatings test results



what do the results show?

vebrodeck PU TC and **vebro** PU UV WB Seal (Gloss) are...

- ✓ Environmentally preferred coatings
- ✓ Free from harmful chemicals and contaminants, heavy metals, carcinogens and bio-accumulative toxins
- ✓ Free from mercury, lead, cadmium, aromatic solvents, ethylene glycol, phthalates, halogenated benzenes, formaldehyde
- ✓ Formulated to ensure the minimum possible environmental footprint

technically speaking...

Technical data for **vebrodeck** PU TC and **vebro** PU UV WB Seal (Gloss) is available on request. For more information, visit vebropolymers.com

						vebrodeck PU TC		
Item no.	Parameter		Test method	Unit	SGLS 032 criteria	Result	RPL	Justification
1	Heavy Metals	Cadmium (Cd)	BCTD / MC / 1HM111 / 2022 Rev (3)	%	ND	ND	0.01	Pass
		Lead (Pb)		%	ND	ND	0.01	Pass
		Total Chromium (Cr)		%	ND	ND	0.01	Pass
		Mercury (Hg)		%	ND	ND	0.01	Pass
2	Volatile Organic Compounds		ISO 11890-2 Ed 3.0 : 2020	g/L	25*	ND	1.0	Pass
3	Total Halogenated Organic Solvent			%	ND	ND	0.1	Pass
4	Total Aromatic Organic Solvent			%	ND	ND	0.1	Pass
5	Epichlorohydrin			%	ND	ND	0.1	Pass
6	N-Methyl Pyrrolidinone			%	ND	ND	0.1	Pass
7	Formaldehyde		High Performance Liquid Chromatography	%	ND	ND	0.1	Pass
8	Alkyl Phenol Ethoxylate		LCMS-MS	%	ND	ND	0.1	Pass
9	Flash Point		ASTM D3828-16a (2021) (Proc. B)	°C	>61.0	>61.0	-	Pass

vebro PU UV WB Seal (Gloss)		
Result	RPL	Justification
ND	0.01	Pass
ND	0.01	Pass
ND	0.01	Pass
ND	0.01	Pass
ND	0.01	Pass
ND	1.0	Pass
ND	0.1	Pass
ND	0.1	Pass
ND	0.1	Pass
ND	0.1	Pass
ND	0.1	Pass
ND	0.1	Pass
ND	0.1	Pass
>61.0	-	Pass

ND: Not detected (below reporting limit). RPL: Reporting limit. Test for Formaldehyde, Alkyl Phenol Ethoxylate & Flash Point were performed in conjunction with external laboratory. SETSCO shall adopt the simply acceptance as the decision rule in evaluating conformance to specification. *Matt, interior: **vebrodeck** PU TC – Dusty Grey RAL 7037 Lot / Batch No. V1493-231003/B:V1499-231003 (Date: 07/12/2023, Testing House: Setesco Services Pte Ltd). **vebro** PU UV WB Seal (Gloss) – Dusty Grey (RAL 7037) Lot / Batch No. V1495-231003/B:V1496-231003 (Date: 07/12/2023, Testing House: Setesco Services Pte Ltd).

linemarking & demarcation

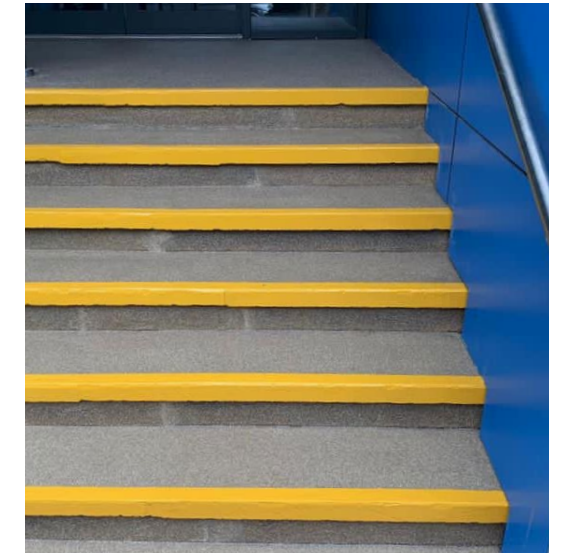
Complementary PU linemarking is available to create demarcation and signage that regulates traffic movement throughout the car park and denotes specialist bays, areas and instructions.



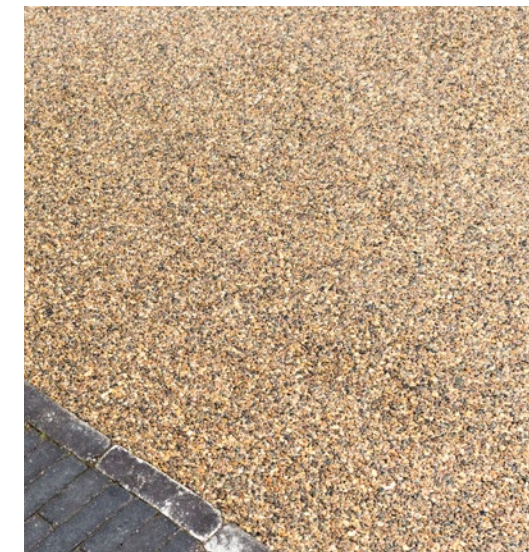
complementary systems



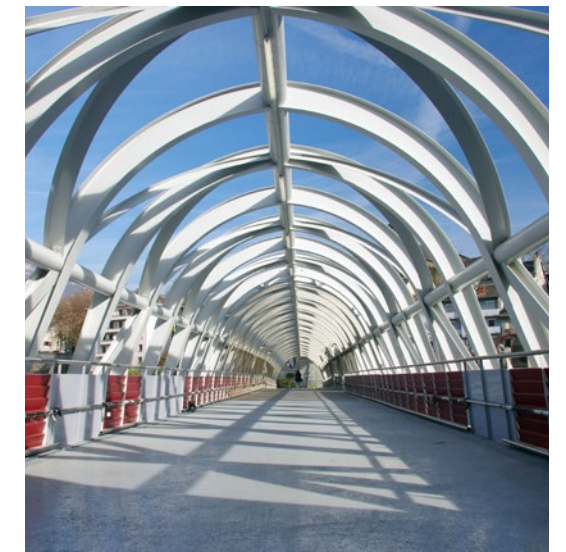
Epoxy & polyurethane floor systems for pedestrian areas



Slip resistant, resin floor systems with aggregate for safer stairwells



External resin-bound pathways and landscaping



Decorative flake floor coating systems

technically speaking...

Looking for technical information?
Full technical profiles can be found in the **vebrodeck** technical datasheets.

For the most recent **vebrodeck** datasheets and standard system specifications, please visit vebrodeck.com



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.

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