



vebrodeck Vitesse: the future of car park surfacing & protection

rapid install, crack-bridging,
polyurea deck waterproofing

vebropolymers

vebrodeck Vitesse

the speediest way to surface exposed parking decks

vebrodeck Vitesse is a cold-liquid applied, industry-leading dynamic crack-bridging (B4.2 cracks up to 0.80 mm), polyurea car park deck waterproof wearing system that is open to fully operational wheeled traffic in just 48 hours.

By significantly reducing the number of layers required throughout the installation process and using fast, low-temperature cure polyurea resins, **vebrodeck Vitesse** is the fastest way to refurbish existing car park decks or accelerate construction schedules on new-build structures.

vitesse. (vē·tes'): the act or quality of acting or moving fast.

performance benefits

crack bridging
up to
0.8 mm



vebrodeck Vitesse delivers B4.2 dynamic crack-bridging up to 0.80 mm – **over 100% greater than most competitors!**



vebrodeck Vitesse can be driven on in just 48 hours, even in low temperatures, reducing down-time



With fewer processes involved in the installation*, **vebrodeck Vitesse** reduces construction schedules



vebrodeck Vitesse meets EN 1504-2, dynamic crack-bridging, DAfStb – OS10 system



vebrodeck Vitesse has a green formulation with 0% plasticiser, renewable raw materials, and 90% less sand required



vebrodeck Vitesse is odourless and demonstrates excellent performance and can be laid on a range of substrates

*Compared with fast cure methyl-methacrylate (MMA) exposed deck car park waterproofing systems.



vebrodeck Vitesse system design

- 1 **Primer:**
vebro EP Primer RC
- 2 **Membrane:**
vebrodeck UR Flex Membrane RC
- 3 **Topcoat:**
vebrodeck UR Topcoat RC

Optional Accelerator
vebro PU Accelerator



Performance Criteria		
Speed of Cure	Light Foot Traffic: 8 hours Full Chemical Cure: 24 hours	
Dynamic Crack Bridging	EN 1062-1	II _{T+V} (B4.2)
Abrasion Resistance	EN ISO 5470-1 (H22 Wheel) Parking Abrasion Test (PAT)	< 700 mg / 1,000 (≥ 3,000) 15,000 cycles VK1 (extremely low)
Impact Resistance	EN ISO 6272-1	4 Nm – no cracks
Weathering	EN 1062-11	No signs of blistering, cracking or flaking after 80 days of accelerated UV exposure
Chemical Resistance	Resistant to a very wide range of chemicals. For a full chemical resistance breakdown, contact our Technical Services team.	
Adhesion	EN 1542 (Pull Off Test)	≥ 2.7 N/mm ² (≥ 1.5 N/mm ²)
Fire Resistance	EN ISO 13501	E _{fl}
Water Vapour Permeability	EN ISO 7783-1 and 2	Class III > 200 m (> 50 m)
Slip Resistance	EN 13036-4 DIN 51130	60 Skt (≥ 55 Skt) R11-V4 and R11-V6
Water Absorption Coefficient	EN 1062-3	< 0.01 kg/m ² × h ^{0.5} (< 0.1)
Temperature Resistance	0°C – 60°C (> 80°C for intermittent periods)	

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. System Data Sheets are regularly updated and it is the user's responsibility to ensure they obtain the most recent version.

a **dynamic** deck waterproofing system



tough enough for top decks

It can be tough at the top, never a truer word spoken when it comes to multi-storey car park construction, where exposed decks and ramps directly above occupied premises must fully waterproof and protect the structure below.

vebrodeck Vitesse is best suited to exposed, and partially exposed rooftop decks, exhibiting excellent resistance to extreme weather conditions and variables, delivering a flexible waterproof membrane that guards against water ingress and prevents damage caused by thermal cycling and UV exposure.

fast cure & fewer installation steps

A reduction in operational downtime or an accelerated construction schedule can make a world of difference when it comes to budget on both refurbishment and new-build multi-storey car park projects.

vebrodeck Vitesse not only harnesses fast cure polyurea resin technology but also has fewer application processes compared to traditional exposed deck waterproofing and surfacing systems, meaning reduced labour time and cost as well as smaller windows of dry weather required to complete top deck installations.

industry leading crack bridging

Multi-storey car parks are dynamic structures, subject to live load cycles as vehicles and pedestrians moves around, often fill to capacity and then ultimately empty the structure.

Delivering industry leading dynamic crack bridging of up to 0.80 mm, the EN 1504-2 certified, B4.2 -20°C **vebrodeck Vitesse** is ideal for use on decks of multi-storey car parking structures and pedestrian bridges subject to structural movement and crack-in-service risks.

Speed of application

Certification

Budget

Schedule

Durability

Aesthetics

Design warranties

colours available

vebrodeck Vitesse is available in an almost unlimited palette of standard, non-standard and premium RAL Classic colours.

Below is just a snapshot of the colours available. For a full breakdown of the colours available, contact your local Vebro Polymers team.

Light Grey RAL 7035	Agate Grey RAL 7038	Traffic Grey A RAL 7042	Stone Grey RAL 7030
Dusty Grey RAL 7037	Blue Grey RAL 7031	Graphite Grey RAL 7024	Traffic Yellow RAL 1023*
Traffic Orange RAL 2009*	Traffic Red RAL 3020*	Traffic Blue RAL 5017*	Traffic Green RAL 6024 *
Traffic Black RAL 9017	Traffic White RAL 9016		

* Colours marked with an asterisk will incur an additional supplement. Please note, the applied colours may differ from the examples shown. **vebro** systems may exhibit a yellowing effect over time resulting from thermal and UV exposure. To discuss colour fast options, or for colour cards or samples, please contact our Technical Services team.

from the top deck 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 supports in order to maximise the number of vehicle parking spaces.

They are also highly exposed to the elements, leading to a far greater risk of problems than in other buildings, including water ingress, movement & cracking, mechanical abrasion, UV & thermal shock damage and chemical degradation.

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

Application	System	Thickness	Crack-Bridging EN 1062-7	Certification EN 1504-2	Slip Resistance EN 13036-4	Fire Resistance ISO 13501
 Top Deck	vebrodeck Vitesse	3.5 – 4.5 mm	0.8 mm B4.2 at -20°C	OS10	<R12	C _{fi} -S1
	vebrodeck MMA ED	4.0 – 5.5 mm	0.3 – 0.6 mm B3.2 at -20°C	OS11a	<R13	C _{fi} -S1
 Over Occupied Premises	vebrodeck ID OOP	4.0 – 5.0 mm	<0.6 mm B3.2 at -20°C	OS11a	<R12	B _{fi} -S1
 Intermediate Deck	vebrodeck MMA ID	2.0 mm	Static crack-bridging grade available (A2)	OS8	<R13	C _{fi} -S1
	vebrodeck ID	2.0 mm	Static crack-bridging grade available (A2)	None	<R12	B _{fi} -S1
 Basement Deck	vebrodeck ID BL	1.5 – 3.0 mm	None	OS8	<R12	B _{fi} -S1



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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