

vebrodeck PU Membrane (2-Pack)

vebrodeck PU Membrane is a two-component, elastic polyurethane membrane.

vebrodeck PU Membrane offers both elastomeric and waterproofing properties and has been specifically designed for crack bridging purposes on intermediate level decks of multi-storey car parking structures.

Typical uses of vebrodeck PU Membrane are areas with high degrees of trafficking in combination with those with cracks or where cracking may occur due to mechanical stress.

Component	Weight	
vebrodeck PU Membrane (Part A)	12.3 kg	✓ Excellent crack-bridging capabilities (20%)
vebrodeck PU Membrane (Part B)	2.7 kg	✓ Excellent wear resistance
Total Unit:	15.0 kg	✓ Solvent-free and low odour
		✓ Designed for use on intermediate decks

Specific Gravity

1.34 g/cm³ @ 25°C

Viscosity

5,000 – 6,000 mPas

Tensile Strength

>10 N/mm²

Elongation at Break

>20%

Working Time

~20 – 25 minutes @ 25°C (usable working life of material following mixing and immediate spreading as per the application instructions).

Coverage

The recommended coverage of vebrodeck PU Membrane is 1.20 – 1.40 kg/m² per mm.

Overcoating Time

Within 12 – 24 hours @ 25°C

Speed of Cure

- Light Foot Traffic – 12 – 15 hours
- Light Wheeled Traffic – 24 hours
- Heavy Duty Traffic – 72 hours
- Full Chemical Cure – 7 days

Storage & Shelf Life

All components should be stored off the ground, in a cool dry area, away from direct sunlight between 10 – 30°C. Materials will keep for 12 months in the closed original container and provided the above storage conditions have been met.

Application Temperature Range

~10 – 30°C is recommended. Outside of this range, heating or cooling equipment should be used to achieve ambient conditions. The substrate, before priming, should be at least 3°C above the dew point to reduce the risk of condensation or blooming. This should be maintained for 48 hours after application.

Substrate Requirements

All substrates should be capable of bearing loads, free of cracks and voids as well as free from laitance, dust and other contamination including dirt, oil, grease, coatings, and surface treatments.

The substrate should be sound with a minimum compressive strength of 25 N/mm² and a minimum tensile strength (pull-off) of 1.5 N/mm². The concrete substrate must be a minimum of 28 days old and the residual moisture content must be a maximum of 97% RH or 6% CM.

Newly laid concrete should be allowed to cure for a minimum of 28 days, however where the concrete meets a 0.48 water to cement ratio and has been finished with a bull float, 7 days is adequate.

Where the concrete substrate is in contact with the ground, an effective damp proof membrane should have been incorporated into the slab design.

Substrate Preparation

Concrete or suitable polymer modified screed substrates should be mechanically prepared using captive vacuum enclosed shot blasting or diamond grinding, to remove surface cement based laitance and previous surface treatments leaving an open textured mechanically prepared surface.

Weak concrete / polymer modified screed must be removed and repaired using recommended Vebro Polymers' products.

Imperfections in the concrete (holes and cracks) should be filled using Vebro Polymers' epoxy patching compound.

Application Instructions

Priming

vebro EP Universal Primer is recommended. 1-coat standard primer, 2-coat DPM. See **vebro** EP Universal Primer datasheet for more details

To improve inter-coat adhesion, broadcast **vebro** Natural Quartz (0.2 – 0.5 mm) while the primer is still wet.

Mixing

The contents of the **vebrodeck** PU Membrane (Part A) should be stirred for approximately 2 – 3 minutes.

The contents of **vebrodeck** PU Membrane (Part B) should be drained into the **vebrodeck** PU Membrane (Part A) component and the two materials thoroughly mixed at a speed of 350 rpm for two minutes

Application

Pour the mixed **vebrodeck** PU Membrane across the substrate and spread with a notched trowel to the required thickness.

Broadcast to excess with **vebro** Natural Quartz (0.7 – 1.2 mm) while still wet. Allow to cure overnight before re-applying a second layer. Repeat the steps above should a third layer be required.

Overcoating

Overcoating should be carried out within 24 hours of application. If longer than 24 hours it will be necessary to lightly grind the surface by mechanical means before overcoating is carried out.

Further Information

Information relating to the safe handling of this product can be found in the Material Safety Data Sheet. Local regulations concerning the safe handling of resin based coating materials must be observed. Suitable protective clothing including suitable eye protection must be worn at all times.

All consumptions listed are for recommendation purposes only. Detailed application instructions and system build-up advice can be provided on request through our Technical Services team.

Vebro Polymers' systems and products are guaranteed against defective material and manufacture and are sold subject to its standard Terms and Conditions of Sale, copies of which can be obtained on request.

Vebro Polymers accepts no responsibility for liability claims based on the suggested practises and data values listed on product data sheets. Product data sheets are regularly updated and it is the user's responsibility to ensure they obtain the most recent version. The most recent versions can be found at www.vebro polymers.com

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