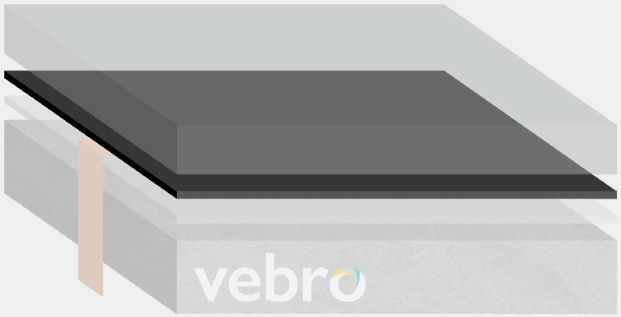
vebro polymers

vebro EP ESD Primer (2-Pack)

vebro EP ESD Primer is a black, water-based conductive primer designed for use in an ESD (electrostatic discharge) control flooring system build-up.

vebro EP ESD Primer **should** be diluted with a **20% water addition** by weight of resin (combined Part A + Part B) prior to application.

vebro EP ESD Primer is designed for use in both static-conductive and static-dissipative floor coating systems where any static charge generated by walking on the surface is safely grounded, eliminating both damage to sensitive components and / or explosion risk.



Component	Weight
vebro EP ESD Primer (Part A)	12.0 kg
vebro EP ESD Primer (Part B)	3.0 kg
Total Unit:	**15.0 kg**

Density

Mixed Unit: 1.1 kg / ltr
Part A: 1.1 kg / ltr
Part B: 1.1 kg / ltr

Unit Weight

15.0 kg (13.6 ltr)

Mix Ratio

A:B:Water = ~4:1:1 (3 litres of water per 15.0 kg unit)

Coverage

~150 sqm based on primed substrate.

HS Code

(Part A) 3907300080
(Part B) 2921290090

Consumption

The recommended consumption of **vebro** EP ESD Primer is 0.08 – 0.12 kg / m^2 on smooth surfaces, or 0.16 – 0.19 kg / m^2 on broadcast surfaces. ***Note: this consumption includes the 20% water addition required.***

Working Time

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

Overcoating Time

~8 – 24 hours @ 20°C (some mechanical preparation may be required if outside of this window).

Speed of Cure

- Light Foot Traffic – 8 hours
- Light Wheeled Traffic – 48 hours
- Heavy Duty Traffic – 72 hours
- Full Chemical Cure – 7 days

Storage

All components should be stored off the ground, in a cool dry area, away from direct sunlight between 5 – 35°.

Shelf Life

12 months when stored as described.

*These coverages are theoretical and may vary due to a number of factors including the condition of the substrate. It is the applicator's responsibility to ensure the substrate has been surveyed and tested. A recommended 5% wastage addition is advised on all orders.

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Substrate Requirements

All substrates should be capable of bearing loads, free of cracks and voids as well as free from water ponding as well as 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/mm^2 and a minimum tensile strength (pull-off) of 1.5 N/mm^2. The concrete substrate must be a minimum of 28 days old and the residual moisture content must be a maximum of 4% CM.

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

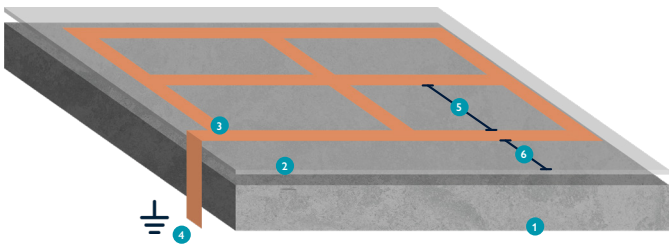
vebro EP ESD Primer must be applied onto a pre-primed epoxy substrate.

For the connection to earth points, use self-adhesive copper tape (min 50.0 cm apart). One earthing point is required for each 100m^2 area is recommended and a minimum of two earthing points per room.

Earthing Points Layout

Apply min. 10.0 mm wide copper tape around the perimeter of the area, 1.0 m from the walls. Apply a 3-metre grid of copper tape within the perimeter tape, as shown on the diagram below. Connect the copper tape grid to earth.

Note: connecting to earth must be carried out by a qualified electrician



1. Prepared substrate
2. Primer
3. Copper tape
4. Earth *(see table)*
5. 3.0 m centres
6. 1.0 m to edge

Floor area	Earth Points
> 400 m^2	2
> 600 m^2	3
> 800 m^2	4
> 1000 m^2	5

Application Instructions

Mixing

The contents of the **vebro** EP ESD Primer (Part B) should be drained into the **vebro** EP ESD Primer (Part A) component and the two materials thoroughly mixed at a speed of 500 rpm for three minutes.

Don't forget!
Dilute with 20% of clean water and mix again for a further 2 minutes!

The mixed liquid (including the water addition above) should then be poured into a clean suitably sized separate mixing container and mixed for a further 1 – 2 minutes.

Application

Spread the mixed **vebro** EP ESD Primer across the substrate with a squeegee and back-roll with a short-pile roller.

To obtain uniform conductiviy results across the surface of the floor, it is very important that **vebro** EP ESD Primer is applied evenly over the whole area. No sand or thixotropic agent should be added to the **vebro** EP ESD Primer, nor should any quartz sand be broadcast on the conductive layer.

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.

UK CA CE 24

Supplied by:	**Vebro Polymers UK Limited,** *Argyle House, Stanley Green Trading Estate, Epsom Avenue, Handforth, Wilmslow, Cheshire, SK9 3RN, United Kingdom*		
Harmonised Standard	EN 13813:2002 (System 4)		
Intended Use:	Synthetic resin screed materials for use internal use		
Reaction to Fire	B_{fl}-s1	***Release of Corrosive Substances***	SR
Wear Resistance	AR1	***Bond Strength***	>B1.5

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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 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.

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