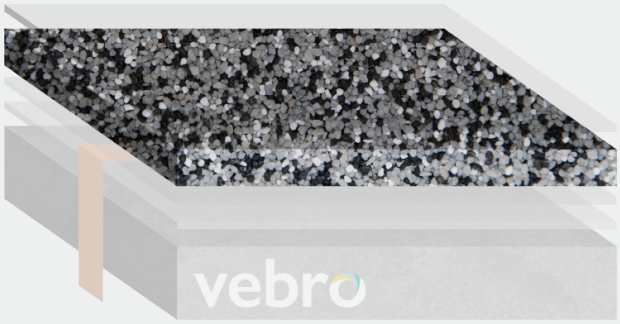
vebro polymers

vebro EP ESD Quartz Binder (2-Pack)

vebro EP ESD Quartz Binder is a lightly pigmented solvent-free epoxy binding layer designed for use in decorative quartz ESD (electrostatic discharge) control flooring system build-up.

vebro EP ESD Quartz Binder is a specially formulated, AgBB low emissions epoxy resin used to bind broadcast **vebro** ESD Coloured Quartz aggregates in electrostatic discharge (ESD) control flooring systems.

Its primary function is to securely bind the conductive quartz particles prior to sealing, creating a durable, decorative, and electrically conductive surface that delivers consistent readings throughout the flooring system.



Component	Weight
vebro EP ESD Quartz Binder (Part A)	20.0 kg
vebro EP ESD Quartz Binder (Part B)	8.6 kg
Total Unit:	**28.6 kg**

Density

Mixed Unit: 1.1 kg / ltr

Unit Weight

28,6 kg (26.0 ltr)

Mix Ratio

100:43

Coverage

Dependent on specification, see *System Data Sheet*

HS Code

(Part A) 3907300080
(Part B) 2921290090

Consumption

The recommended consumption of **vebro** EP ESD Quartz Binder is 0.60 kg / m^2 per coat.

Working Time

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

Overcoating Time

The surface should be fully broadcast with **vebro** ESD Coloured Quartz Blends while tacky (10 – 15 minutes)

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 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

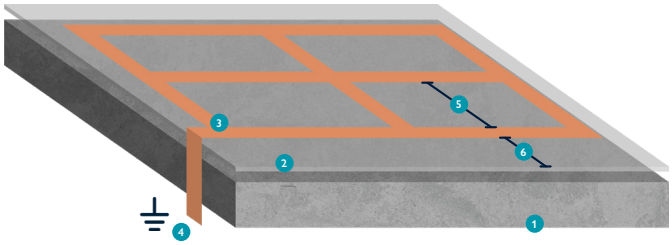
Substrates should be mechanically prepared using captive vacuum enclosed shot blasting or diamond grinding, to remove surface cement based laitance and previous surface treatments leaving an open textured mechanically prepared surface.

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.

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

Priming

The material must be laid on a suitably primed substrate followed by earthing points as laid out on the corresponding grid and a suitable epoxy conductive primer, such as **vebro** EP ESD Primer.

Install the **vebro** EP ESD Quartz Binder within 24 hours of laying the **vebro** EP ESD Primer layer.

Mixing

The contents of the **vebro** EP ESD Quartz Binder (Part A) should be mixed for approximately 1 – 2 minutes.

The contents of **vebro** EP ESD Quartz Binder (Part B) should be drained into the **vebro** EP ESD Quartz Binder (Part A) component and the two materials thoroughly mixed at speed of 350 rpm for three minutes

The mixed liquid should then be poured into a clean suitably sized separate mixing container and mixed for a further 1 – 2 minutes.

Application

vebro EP ESD Quartz Binder should be poured onto the surface and spread over the entire area using a spatula, flatting knife or trowel.

Whilst still tacky, fully broadcast with **vebro** ESD Coloured Quartz Blends. Once cured, seal with one coat of **vebro** UR ESD Seal (Clear Gloss).

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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

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.

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.vebropolymers.com***

for chemistry you can count on…

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