

vebro EP DE (3-Pack)

2.0 – 4.0 mm

vebro EP DE is a pigmented, easily applied self-smoothing, solvent-free epoxy floor coating system.

vebro EP DE is typically applied in one layer for a smooth finish, however can be broadcast with graded quartz aggregate while wet and sealed to provide a slip-resistant textured finish.

vebro EP DE provides an impervious, easy-to-clean,

hygienic, and seamless surface with excellent wear and chemical resistance, as well as high mechanical strength. Additionally, the system exhibits strong dielectric strength and insulation resistance, making it an effective electrical insulator for areas where voltage resistance is important.

Designed for use in industrial areas subject to frequent foot traffic and forklift truck traffic. **The product meets Bfl-s1 reaction to fire resistance.**



Component	Weight
vebro EP ED (Part A)	4.60 kg
vebro EP ED (Part B)	2.06 kg
vebro EP ED (Part C)	14.0 kg
Total Unit:	20.66 kg

Density

Mixed Unit: 1.10 kg / ltr

Part A: 1.18 kg / ltr

Part B: 1.06 kg / ltr

Unit Weight

6.66 kg (6.05 ltr)

Mixing Ratio

A:B = 2.2:1

Coverage

Dependent on thickness, ~5.75 square metres per 20.66 kg unit at 2.0 mm.

HS Code

(Part A) 3907300080

(Part B) 3824999299

(Part C) Non Haz

Consumption

The recommended consumption of **vebro** EP DE is 1.80 kg/m² per mm and can be laid from 2.0 – 4.0 mm.

If the slab requires priming, a double prime of **vebro** EP Primer is recommended. See **vebro** EP Primer datasheet for more details.

Working Time

~30 minutes @ 20°C (usable working life of material following mixing and immediate spreading as per the application instructions).

Overcoating Time

~12 – 24 hours @ 20°C (some mechanical preparation may be required if outside of this window).

Speed of Cure

- Light Foot Traffic – 18 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 5 – 35°. Products will last for 12 months when stored as described.

Colours

G glorious greys



RAL 7038
Agate Grey BS 00A09
Flint Grey RAL 7037
Dusty Grey

BS 00A05
Light Grey RAL 7004
Signal Grey RAL 7001
Silver Grey

RAL 7040
Window Grey RAL 7046
Telegrey 2 RAL 7024
Graphite Grey

B brilliant brights



BS 00E55
White BS 00E53
Black RAL 7031
Blue Grey

RAL 7011
Iron Grey RAL 6024
Traffic Green RAL 1003
Signal Yellow

RAL 5015
Sky Blue RAL 5017
Traffic Blue RAL 3001
Signal Red

Please note, the applied colours may differ from the examples shown. Epoxy materials may exhibit a yellowing effect over time resulting from thermal, UV or chemical exposure. This will be more pronounced on light grey or blue shades. Colours outside of our standard range may incur an additional supplement. The manufacture of epoxy flooring is a batch process and despite close manufacturing tolerances, minor variations in shade may occur between batches.

Application Temperature Range

~5 – 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. Do not proceed with application if atmospheric relative humidity is, or is anticipated to be >75% or if the surface temperature is <3 °C above the dew point.

Substrate Requirements

vebro EP DE is suitable for application on cementitious substrates and suitable polymer modified screeds.

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 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.

Application Instructions

Priming

If the slab requires priming, a double prime of **vebro** EP Primer is recommended. See **vebro** EP Primer datasheet for more details

Allow to cure before applying the **vebro** EP DE. To improve inter-coat adhesion, broadcast **vebro** Natural Quartz (0.2 – 0.5 mm) while the primer is still wet.

For details of other specialist primers contact Vebro Polymers' Technical Department.

Mixing

The contents of the **vebro** EP DE (Part A) should be mixed for approximately 2 – 3 minutes.

The contents of **vebro** EP DE (Part B) should be drained into the **vebro** EP DE (Part A) component and the two materials thoroughly mixed at speed of 350 rpm for two minutes. The filler **vebro** EP DE (Filler C) should be added to the mixed A and B components and mixed for a further 2 – 3 minutes until homogenous, smooth and free of any lumps.

The mixture then be poured into a clean suitably sized separate mixing container and mixed for a further 1 – 2 minutes. We recommend the application by consecutive sequential batch numbers.

Application

vebro EP DE should be poured onto the surface in portions and spread over the entire area using a steel trowel, suitable squeegee (serrated) or pin rake at the recommended consumption rate.

The material should be rolled over using a spike roller, to assist with the levelling process and to de-aerate the material. The surface can be walked upon with suitable spike shoes . A further back-roll with a spike roller is recommended.

Don't forget!

To avoid air entrainment use a slow-speed setting whilst mixing.

Broadcast with **vebro** Natural Quartz (0.7 – 1.2 mm) while the first coat is still wet if seeking a slip-resistant textured finish.

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.



Manufactured 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 internally in buildings and intended for wearing surfaces.		
Reaction to Fire	Bi-s1	Release of Corrosive Substances	SR
Wear Resistance	AR0,5	Bond Strength	B2.0

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.vebropolymers.com

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