vebro polymers

vebro PAS HBC (2-Pack)

~0.30 mm

vebro PAS HBC is a polyaspartic-based high build coating derived from aliphatic polyurea, formulated for fast-track, low-odour industrial flooring applications.

Its low-viscosity composition allows efficient application over large surface areas, suitable as a durable wearing surface in industrial environments, car park decks, and for line marking.

The system is rapid curing, permitting foot traffic after 1 hour and vehicular traffic after 3 hours, with reliable performance in ambient temperatures down to 5°C.

vebro PAS HBC provides a tough and glossy finish with high abrasion and traffic resistance and low VOC emissions, supporting compliance with environmental and occupational health standards.

vebro PAS HBC is available in a range of standard colours and delivers good coverage, consistent film build, and a long-lasting, high-performance finish suitable for demanding industrial flooring systems.

Component	Weight
vebro PAS HBC (Part A)	16.75 kg
vebro PAS HBC (Part B)	3.25 kg
Total Unit:	**20.0 kg**

Density

Part A: 1.50 g/cm^3
Part B: 1.16 g/cm^3

Unit Weight

20.0 kg

Mix Ratio

A:B = 5.15:1

Coverage

~40 sqm / 20.0 kg unit at the recommended consumption for a smooth coating based on a two coat application.

HS Code

(Part A) 2922498590
(Part B) 2929100090

Consumption

The recommended consumption of **vebro** PAS HBC is 0.20 – 0.30 kg/m^2 per coat for a smooth surface and 0.30 – 0.40 kg /m^2 per coat when used in conjunction with broadcast aggregates for slip resistance purposes.

Working Time

~30 – 40 minutes @ 20°C (usable working life of material in the pot following mixing).

Overcoating Time

~1 – 12 hours @ 20°C (some mechanical preparation may be required if outside of this window).

Speed of Cure

- Light Foot Traffic – 1 hours
- Light Wheeled Traffic – 3 hours
- Full Chemical Cure – 1 day

Storage & Shelf Life

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

RAL 7042	BS 4800 00A05	RAL 9004	RAL 1003	RAL 9003
Traffic Grey	Light Grey	Signal Black	Signal Yellow	Signal White

Please note, the applied colours may differ from the examples shown. 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 PAS HBC 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/mm^2 and a minimum tensile strength (pull-off) of 1.5 N/mm^2. The concrete substrate must be a minimum of 3 weeks old or the moisture content less than 5% or 75% RH.

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

Priming is only required if the slab exhibts moisture content higher than 5% or 75% RH. For details of other specialist primers contact Vebro Polymers' Technical Department.

Mixing

Remove the lid from **vebro** PAS HBC (Part A) (bucket) and **vebro** PAS HBC (Part B) (bottle). Pour the contents of Part B into Part A.

Mix thoroughly for 60–90 seconds using a drill with a paddle attachment, then allow the mixture to stand for 60 seconds. The pot life of the combined material is approximately 30 - 40 minutes at standard ambient conditions.

Application

vebro PAS HBC should be applied evenly onto a properly prepared or primed surface using a rubber squeegee or a short-haired paint roller.

Ensure sufficient material is applied to form a uniform, tightly bonded top layer.

Overcoating

Overcoating must take place within 24 hours to achieve full intercoat adhesion.

Notes & Limitations

- Substrates must be properly cleaned, dry, and free of contaminants (oil, grease, dust); poor preparation can cause adhesion failure, bubbling, or peeling.
- Ideal application temperature range is 5–35°C; high humidity or condensation can affect cure and gloss.
- Pot life is limited (~30–40 minutes), requiring rapid application over large areas; mixed material cannot be stored.
- Take care not to cut in too far ahead, as the cure time on the floor is much quicker than the pot life.
- Concrete floors must have low residual moisture; excess moisture may cause blistering or delamination.

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- Excessive film thickness in a single coat can lead to surface defects such as bubbles or sagging.
- Prolonged exposure to harsh chemicals may affect longevity and appearance, despite good general chemical resistance.
- Second coats must be applied within a specific window (e.g., within 24 hours) to ensure proper intercoat adhesion.
- Clean all tools and equipment with MEK (methyl ethyl ketone) or ethyl acetate before the coating cures. Once the product has cured, any remaining residues can only be removed mechanically

UK CA CE

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) Reaction to Fire Behaviour (System 3)		
Intended Use:	Synthetic resin screed materials for use internally in buildings and intended for wearing surfaces.		
Reaction to Fire	B_{fl}-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

for chemistry you can count on…

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