

vebro EP Universal

vebro EP Universal is a pigmented, ready to use, solvent free, two component, high-grade epoxy resin coating which can be broadcast with both silica and quartz sand at certain thicknesses to deliver an anti-slip finish.

Installed using a suitable squeegee, floor paint roller and paint brush, **vebro** EP Universal produces a tough, joint free, non-porous gloss finish floor coating which is easy to clean, exhibiting excellent UV resistance and good protection against fuels and lubricants as well as most solvents, acids and alkalis at certain concentration levels.

Used as a high build coating, **vebro** EP Universal delivers a hard wearing, dust free, hygienic, easy to clean floor finish.

vebro EP Universal is widely used in industrial areas such as warehousing, manufacturing facilities, laboratories and power stations, and commercial applications including showrooms and schools, as well as for car park deck coatings as a top coat.

Substrate Preparation

New concrete should be at least 21 – 28 days old or the moisture content less than 5% or 75% RH, otherwise a suitable moisture mitigating primer should be specified and applied before proceeding with the **vebro** EP Universal high build coating application.

The substrate must be clean and dust free. All traces of oils, fats, greases, paint residues, chemicals, algae, and laitance should be removed by enclosed captive shot blasting or vacuum assisted diamond grinding. Finish edges with hand tools to the same standard, to leave a dry and dust free suitably prepared surface.

Depending on the suitable substrate, surface profile, texture, and regularity the mixed product is applied directly onto the cured primer within the overcoat window or onto an epoxy levelling layer / scratch coat (as applicable)

Application Instructions

Prior to application, the material should be suitably conditioned to a suitable ambient temperature.

Liquid Mixture

Consumption
0.25 – 0.30 kg/m²

Film Thickness
0.15 – 0.20 mm
(150 – 200 microns)

Application Temperature
5 – 30°C
(min 3°C above dew point)

Packaging (Unit Sizes)
20.0 kg

Colour
See Vebro Polymers
Colour Bible

Shelf Life
12 months in original
closed containers.

Storage
Dry conditions 5 – 35°C,
avoid direct sunlight.

Working Time
60 minutes @ 20°C

Foot Traffic
After ~24 hours @ 20°C

Overcoating Window
12 – 24 hours @ 20°C

The typical physical properties given above are derived from testing in a controlled laboratory environment at 20°C. Results derived from testing field applied samples may vary dependent upon site conditions.

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The product is delivered in factory filled ready to use two component containers in the exact mixing ratio. The Pigmented A component must be stirred for at least 2 – 3 minutes. Then the entire content of the B Component is emptied into the A component container and the two components are mixed until homogeneous using a suitable electric stirred (e.g., slow speed drill and paddle) and mixed for 2 – 3 minutes.

The inclusion of air entrainment in the mixing process is to be avoided. The mixture is poured into another clean container and briefly mixed again for 1 – 2 minutes adding any dry silica sand (as required) dependent upon application thickness. We recommend the application by consecutive sequential batch numbers.

The consumption addition and application properties should be suitably tested by the installer depending upon recommended specification guidance on applied thickness and ambient site conditions (air and substrate temperature).

vebro EP Universal is poured onto the suitably prepared and primed surface and spread over the entire using a suitable squeegee and is rolled out to its final application thickness with a suitable mohair roller for finishing purposes. The fluid coating can be walked upon with suitable spike shoes during application to facilitate the spread and application process.

When an anti-slip profile is required at the suitable thickness level the appropriately sized silica or quartz sand needs to be broadcast onto the wet first coat application within the optimum curing time window for optimum degree of anti-slip and uniform surface profile, before applying the second coat to seal the broadcast aggregate onto the cured first coat application ('termed sandwich coat application').

Overcoating

It is not necessary to abrade the surface of a non-silica / quartz sand profiled coating application if the following coat is applied onto the non-broadcast (smooth finish) surface within 24 hours. After 24 hours, the subsequent application can only take place after careful grinding or abrading of the surface.

Cleaning & Maintenance

For the long-term maintenance of the properties of polymer flooring materials, a regular cleaning and care programme is recommended.

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 polyurethane 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.

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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. For more information, please refer to individual product data sheets or contact our Technical Services team.

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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The Court, Kestrel Road, Trafford Park, Stretford, Manchester, M17 1SF

w: vebro polymers.com | **e:** hello@vebro polymers.com | **t:** +44 (0) 1618 738 396