vebro polymers

vebroscreed Industrial

vebroscreed Industrial is a rapid setting and hardening, high strength, single part, cementitious self-smoothing screed that can be applied up to depths of 50.0 mm.

Its early strength development formulation also makes it ideal for overcoating with resin coatings as well as conventional floor coverings.

vebroscreed Industrial can be used prior to the application of a Vebro Polymers approved resin coating finish (not **vebro**crete systems), alternatively, the material can be used as a final wearing surface in its untreated form, albeit a range of sealers can be used to seal the screed.

vebroscreed Industrial is suitable for suitable for use in industrial,commercial, and domestic flooring-based installations.

Substrate Preparation

vebroscreed Industrial is a moisture tolerant formulation and can be applied to cementitious subfloors where there is an absence of a substrate Damp Proof Membrane (DPM) provided there is no risk of hydrostatic pressure from the beneath the substrate.

However, if overlaid resin coating and conventional floor covering systems laid onto **vebro**screed industrial then the product must be protected from rising moisture including residual construction moisture within the substrate by the application of **vebro** EP Primer or **vebro** EP DPM suitably applied to the substrate prior to the overlaying of the **vebro**screed Industrial (see relevant technical datasheet).

Any surface laitance, adhesive residue, paints, existing smoothing underlayment's, and any other materials which will hinder the **vebro**screed Industrial's bond with the substrate should be mechanically removed. The substrate should be clean, dry, and structurally sound and have a minimum compressive strength of 30N/mm^2.

The area should also be dust free prior to any primer application. Subfloors should be tested in accordance with BS 8203 to ensure a moisture reading of less than 75% RH should be achieved. Where this has not been attained or where there is uncertainty that the subfloor design incorporates a DPM then **vebro** EP Universal Primer or **vebro** EP DPM Plus must be applied in the first instance with either an appropriate quartz sand surface blinding into the wet / uncured Primer.

Liquid Mixture

Consumption
1.67 kg / m^2 / mm

Film Thickness
5.0 – 50.0 mm

Application Temperature
5 – 25°C

Packaging *(Unit Sizes)*
25.00 kg

Colour
Grey

Shelf Life
6 months in closed original container

Storage
Store in a dry place between 5–30°C

Working Time
30 – 40 minutes @ 20°C

Foot Traffic
Typically 2 – 3 hours @ 20°C

Overcoating Window
5.0 – 15.0 mm: 24 hours
15.0 – 30.0 mm: 48 hours
30.0 – 50.0 mm: 72 hours

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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Priming Summary

Substrates should always be primed prior to applications of **vebro**screed Industrial with **vebro**screed Primer or **vebro** EP Universal Primer (as a DPM) prior to overcoating with **vebro**screed Primer (non-industrial applications only). This will enhance the application characteristics and improve the adhesive bond between **vebro**screed Industrial and the substrate.

Additionally, **vebro**screed Primer applications should be in a thin uniform coating avoiding pooling and puddling of primer. The dry film should be a clear translucent / opaque film. All dilution ratios are water: primer. Drying times are for guidance only and will be subject to substrate absorbency, temperature, building humidity and airflow. Vebroscreed Industrial applications must be made within 36 hours of the **vebro**screed primer curing.

Application Instructions

Site Pre-conditioning

vebroscreed Industrial should not be applied on projects unless it can be guaranteed that substrate and air temperatures do not drop below 5°C during application and throughout curing (nominally 48 hours minimum). The use of radiant heaters is recommended to attain ideal application temperatures on cold sites (directed away from the substrate). Do not use fuel burning space heaters. Light ventilation is recommended, particularly in enclosed areas.

Avoid strong draughts as this can cause localised rapid drying and may result in surface crazing, **vebro**screed Industrial can be applied both by hand mixing of individual units or by continuous pumping. Do not use warm water as this will reduce the products working time and may result in shrinkage related issues.

The temperature of the substrate should exceed the "dew point" by 3°C during application and hardening. Temperatures should not fall below 5°C in the 48 hrs after application.

Hand Mixing Application

Pour 5.625 litres of clean cold water into a clean oversized bucket (20+ litres), and then gradually add the powder whilst mixing continually with an electric drill (helical mixer or plaster mixer) with helical mixing attachment.

When all the powder is added mix for a further 2 mins, keeping the head of the mixing attachment suitably below the surface (to minimise air entrapment), until a lump free creamy material consistency is obtained. The product can then be poured onto the floor and, using a smooth steel trowel, spread out to the desired application depth floor, and against the wet edge of previously laid material.

The width of a bay being screeded should be limited to about 6 metres, with a temporary stop edge (of timber or self-adhesive foam strip).

When applying at thicker sections a long-handled float or dapple bar is preferred. A spiked roller can be used whilst the product is still fluid to minimise air entrapment and to "marry" wet edges together to give a uniform finish. The depth of spike must be a minimum of 30% longer than the application depth of product otherwise it will not be able to rotate in the product. This is particularly important in deeper applications (>15.0 mm).

Pump Application

Follow pump manufacturers recommended set up guidelines. Ensure the correct water ratio is used by carrying out a flow tube test at the beginning of the project and at regular intervals throughout (ideally once per pallet) to check that ideal flow is being maintained.

Vebro Polymers recommends the logging of flow test results, site conditions, batch numbers and pump equipment for future reference, a Site Survey Form to record such information is available from Vebro Polymers Ltd upon request. When using a Vebro Polymers flow tube of capacity 200 ml then a flow rate of 250 – 290 mm is acceptable.

When using other flow tubes, it is recommended that a single unit be mixed by hand as above and the flow rate of the mixed unit be assessed with the specific flow tube.

For large projects it is recommended that the area be sectioned off into manageable sized bays where a wet edge can be maintained throughout the pumping process.

Curing & Drying

All curing and drying times are based on applications of **vebro**screed Industrial in good ambient conditions of 20°C, 65% air humidity and good ventilation.

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Cold, humid, or damp sites, or those with poor airflow, will prolong curing and drying times, so make adequate allowances for such. Additionally, sites with elevated temperatures will shorten the working time of the **vebro**screed Base and may cause shrinkage-based issues.

vebroscreed Industrial is ready to receive foot traffic after 2 to 3 hours, and approved Vebro Polymers resin coatings or (other suitably approved resin coatings), additionally cementitious adhesives can be after 24 hours to receive conventional floor coverings.

vebroscreed Industrial is ready to receive floor finishes after 24 hours (on applications between 5 and 15mm), 48 hours (on applications between 15 and 30mm) and 72 hours (on applications between 30 and 50mm). It is also recommended that the substrate be tested for moisture before applying conventional floor coverings and resin coating finishes. Typically, a moisture content of 5% (CM) or lower is required, as per BS8203 requirements for conventional floor coverings and 4% (CM), 75% RH for resin coating finishes.

Joints

All joints within the subfloor that are designed for movement MUST be followed through to the surface of the **vebro**screed Industrial. It is recommended that existing substrate joints should be marked out (nail demarcated) prior to applying **vebro**screed Industrial and re-established by disc cutting after 24–48 hours. It is also recommended that a movement joint also be incorporated around columns and at door threshold to ensure building movement does not result in the **vebro**screed Industrial cracking.

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 epoxy 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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