

vebroscreed Commercial

vebroscreed Commercial is a rapid curing and drying cementitious self-smoothing and levelling underlayment, for easy levelling of concrete and semi dry screed substrates which provides a sound, even substrate for the installation of conventional floor coverings.

Good strength performance makes **vebroscreed Commercial** ideal for preparing sub-floors prior to installation of tiling materials, whilst its flow characteristics give a smoothness suitable for bonding of carpets, wood flooring, vinyl, and other resilient floor coverings.

The fast set time of **vebroscreed Commercial** (in good ambient conditions) enables light foot traffic within 2 hours. Please ensure moisture content is below 75% RH in accordance with BS 8203 requirements for non-porous coverings such as porcelain / ceramic tiles.

The formulation incorporates specially graded fillers, cements, and polymers with a rapid curing profile to enable early fixing of finished surfaces. Our specifically formulated product aids application and strength resulting in a strong, sound and even base ready to commence the tiling process after only 8 hours or application of sealed surfaces within 24 hours at 20°C.

vebroscreed Commercial is ideal for fast-track refurbishment and new build construction where conventional floor finishes need to be applied quickly, as well as for smoothing underlying substrates / floors in office buildings, shops, public buildings, schools, arenas, stadiums, hospitals, airports, and prisons.

Liquid Mixture

Consumption

1.67 kg / m² / mm

Film Thickness

Hand mixing application:
0.5 – 20.0 mm

Pump application:
4.0 – 20.0 mm

Application Temperature

5 – 25°C

Packaging (Unit Sizes)

25.0 kg

Colour

Grey

Shelf Life

8 months
(in correctly sealed bags)

Storage

High temperatures and high humidity will lead to a reduced shelf life. Avoid frost. Store in a dry place between 5 – 30°C

Working Time

20 – 30 minutes @ 20°C

Foot Traffic

2 – 3 hours @ 20°C (typically)
at 3.0 mm thickness

Overcoating Window

0.5 – 15.0 mm
From 24 hours @ 20°C

15.0 – 20.0 mm
From 48 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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Substrate Preparation

All subfloors should be protected from moisture from the underlying sub-ground by use of a base damp proof membrane (DPM). Assess moisture levels in accordance with BS 8203, to achieve a hygrometer reading of 75%RH or less. Where this is not attained a surface DPM should be used. Any surface laitance, adhesive residue, paints, weak smoothing underlayment's, and any other materials which will impair the vebroscreed Commercial bond with the subfloor, should be mechanically removed. The subfloor should be clean, dry, and structurally sound. The area should also be dust free prior to any primer application.

Priming Summary

Substrates should always be primed prior to applications of vebroscreed Commercial with vebroscreed Primer or vebro EP Universal Primer (as a DPM) or a combination of both at certain subfloor relative humidity levels. This will enhance the application characteristics and improve the interfacial adhesive bond between vebroscreed Commercial and the substrate.

Additionally, vebroscreed 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.

Application Instructions

Site pre-conditioning

vebroscreed Commercial 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. vebroscreed Commercial can be applied both by hand mixing of individual units and also 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 6.00 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 or suitable rake, spread out to the desired application depth floor, and against the wet edge of previously laid material.

Please note, do not use excess water as this will affect the product performance and finish.

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 at (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.

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vebroscreed Commercial

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 200.0 ml then a flow rate of 270.0 to 290.0 mm is acceptable for hand mixing, and a flow rate of 255.0 to 275.0 mm is acceptable for screed pump mixing.

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.

Please note, do not use excess water as this will affect the product performance and finish.

Curing and drying

All curing and drying times are based on applications of **vebroscreed** Commercial in good ambient conditions of 20°C, 65% air humidity and good ventilation. 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 **vebroscreed** Commercial and may cause shrinkage-based issues.

vebroscreed Commercial is ready to receive foot traffic after 2 hours, additionally cementitious adhesives can be applied after 24 hours to receive conventional floor coverings.

vebroscreed Commercial is ready to receive floor finishes after 24 hours (on applications between 5.0 and 15.0 mm), and 48 hours (on applications between 15.0 and 20.0 mm). It is also recommended that the substrate be tested for moisture before applying conventional floor coverings. Typically, a moisture content of 75% RH or 5% (CM) or lower is required, as per BS8203 requirements for conventional floor coverings.

Joints

All joints within the subfloor that are designed for movement MUST be followed through to the surface of the **vebroscreed** Commercial. It is recommended that existing substrate joints should be marked out (nail demarcated) prior to applying **vebroscreed** Commercial 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 **vebroscreed** Commercial cracking.

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.

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

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.vebropolymers.com

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