

vebroscreed Renovate

vebroscreed Renovate is a single part, high strength, rapid drying and curing self-levelling screed. The product's formulation incorporates a blend of specially graded fillers, cements, polymers, and fibres. Specifically, formulated fibre technology aids application and strength resulting in a strong, sound and even base.

vebroscreed Renovate can receive coverings after 8 hours and enables foot trafficking in 3 hours assuming that good ambient site temperatures with low humidity levels are achieved.

Specially designed for use over a wide variety of subfloors including strong, stable, prepared flooring substrates such as concrete (tamped or pan floated), sand & cement (including proprietary fast drying types), existing cementitious smoothing underlays, terrazzo / granolithic tiles, anhydrite based screeds, damp proof membranes, surface electrical radiant and warm water heating systems. It is also suitable for timber substrates that are firmly bonded, with no movement, (e.g. plywood).

Its protein free formulation means that it can be used in biologically sensitive areas. **vebroscreed Renovate** can be used with underfloor heating systems the depth of the product should be specified between 45-50 mm to maintain heating efficiency.

Substrate Preparation

All substrates should be protected from moisture from the 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 (**vebro** EP Universal Primer or **vebro** EP DPM Plus – the selection of which will be subject to the subfloor (please seek advice from Vebro Polymers if in doubt).

Any surface laitance, adhesive residue, paints, weak smoothing underlays, and any other materials which will hinder **vebro**crete Renovation's bond with the subfloor should be mechanically removed by either vacuum captive shotblasting or vacuum assisted diamond grinding. The subfloor should be clean, dry, and sound.

The surface area should also be vacuumed and made 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.

Liquid Mixture

Consumption

1.67 kg / m² / mm

Film Thickness

3.00 – 75.00 mm

Application Temperature

5 – 30°C (ideal laying temperature 10 – 22°C)

Packaging (Unit Sizes)

25.0 kg

Colour

Grey

Shelf Life

8 months stored as below. High temperatures and high humidity will reduce shelf life.

Storage

Unopened bags, clear of the ground in dry conditions between 5°C and 25°C. Avoid frost.

Working Time

20 – 30 minutes @ 20°C

Foot Traffic

3.00 mm: 3 hours @ 20°C

Overcoating Window

3.00 mm: 8 hours*
5.00 – 15.00 mm: 24 hours*
15.00 – 30.00 mm: 48 hours*
30.00 – 50.00 mm: 72 hours*

For depths above 50.0 mm, leave 7 days before commencing the covering process.

*Dependant on substrate porosity, nature of flooring type and temperatures as in curing & drying above.

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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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 or alternatively allowing the primer to cure and then applying a neat coat application of **vebroscreed** Primer and allowing to suitably cure before overlaying with the **vebroscreed** Renovate.

Application Instructions

All ratios are water: primer. Substrates should always be primed when specifying a bonded screed application. Primer should be allowed to dry prior to the application of the **vebroscreed** Renovation.

Drying times will be based on ambient conditions - bear in mind that cold or damp/humid conditions, or poor airflow, can extend drying time (please see **vebroscreed** Primer datasheet for further information).

Porous Substrates

The absorbency of floors/screeds can vary significantly; this is to be assessed by application personnel on site. Apply a coat of primer diluted 3 parts water to 1-part primer. Allow to completely dry (usually 1-2 hours). Apply a second coat diluted 1-part water to 1-part primer and allow to completely dry before applying further materials.

Please note, on very absorbent substrates a third coat may be required diluted 1-part water to 1-part primer.

Non-porous Substrates

Including very dense substrates / subfloors. **vebroscreed** Primer should be applied neat, in a thin uniform coating and allowed to dry fully.

Subfloor preparation: which type of substrate?

Concrete Subfloors

Power floated concrete should be treated as nonporous. Mechanically abrade (shotblast or diamond grind or scarify) to remove surface hardeners and expose the cement/aggregate. Apply **vebroscreed** Primer neat in a thin uniform coating, allowing it to dry fully (usually 1-2 hours).

Tamped or Pan Fleeted Concrete

Should be treated as porous, and any laitance or weak material should be mechanically removed to ensure a sound, dry and dust-free surface. Apply **vebroscreed** Primer diluted 3:1 with clean water and allow to dry fully (usually 1-2 hours).

Sand/Cement Screeds

These should be strong enough for an application of **vebroscreed** Renovation (minimum 25 N/mm²). Weak, friable, or damaged screed should be uplifted and repaired. Apply **vebroscreed** Primer diluted 3:1 with clean water and allow to dry fully (usually 1-2 hours). Two-coat application may be required for very absorbent screeds.

Existing Smoothing Underlays

vebroscreed Renovate can be used over most intact cementitious cement underlayment's. Remove adhesive residues and treat as an absorbent floor. Apply **vebroscreed** Primer diluted 3:1 with clean water and allow to dry fully (1-2 hours). Apply a second coat diluted 1:1 with clean water allowing it to dry to a clear film (1-2 hours).

Please note, application is only suitable on subfloors that are in equivalent strength to **vebroscreed** Renovate.

Terrazzo / Granolithic Ceramic Tiles

These must be securely bonded, and any surface treatment should be mechanically removed. A good mechanical key should be ensured by abrading the surface using a Surface Texturing & Grinding (STG) machine (BEF 200 / 300 type a diamond disc is recommended). These subfloors can be treated as low porosity and primed using **vebroscreed** Primer neat.

Anhydrite Screeds

See relevant manufacturer's technical datasheet. A barrier primer application is required. If moisture is above 75%RH we do not recommend using a surface DPM. These types of screeds often incorporate warm water underfloor heating systems which can be used, along with dehumidifiers, to speed up the drying process. Screed manufacturers normally suggest this can be conducted after 7 days minimum curing. Mechanically remove any laitance or weak material to leave a clean, dry, and dust-free surface. We recommend an STG machine (BEF 200 / 300 type) with suitable mesh grinding disc of 60-100 grade grit. Apply **vebroscreed** Primer diluted 3:1 with clean water and allow to fully dry overnight. Apply a second coat diluted 1:1 with clean water allowing it to dry to a clear film (usually 1-2 hours).

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

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

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Plywood Sheet

Plywood must be of flooring grade and mechanically fixed to a sound strong base. **vebroscreed Renovate** is only recommended for use with plywood of 15mm thickness and greater and must include glass fibre re-enforcement mesh (sheet) within the screeds application thickness. Plywood must be sealed on the underside and along all edges to ensure moisture absorption from beneath is kept minimal. Plywood absorbency differs depending on the nature of the surface. Normally a diluted coat of **vebroscreed Primer** (3:1 with clean water) is recommended. For dense surfaces of very low absorbency apply **vebroscreed Primer** neat in a thin uniform coating. Allow primer coats to fully dry. Warm Water Underfloor Heating (UFH): Systems must have been fully commissioned and brought up to their maximum temperature, and ideally switched off 48 hours before application. In the absence of other heat sources, the UFH may be set to 'cutback' position to achieve an air temperature of 15°C. Any expansion or movement joints must be carried through to the floor covering surface.

Radiant Electrical Underfloor Heating System

vebroscreed Renovate can also be used over electrical UFH systems where the cables are fixed to a sound strong mechanical fixed cement faced backer board. Apply **vebroscreed Primer** diluted 3:1 with clean water and allow to dry fully (usually 1-2 hours). It may also be used where electrical UFH is used over cementitious or calcium sulphate subfloors. Priming should be as per the substrate. In all cases **vebroscreed Renovate** must be applied at a thickness of 5mm above the cables for resilient, textile and timber applications and a minimum of 3mm for application of stone, ceramic or porcelain products.

vebro EP Universal Primer and vebro EP DPM Plus

Applications that have not received a full quartz sand (**vebro** Natural Quartz 0.7 – 1.2 mm or 1.1 – 2.00 mm) blinding into the DPM related primer should be carried out within 36 hours of DPM application. The cured DPM must then be primed with **vebroscreed Primer** neat in a thin uniform coating, allowing it to dry fully (usually 1-2 hours).

Mixing & Application (**vebroscreed Renovate**)

Mixing ratios of powder and water should be controlled to ensure a free-flowing material suitable for 3-75mm application. Do not use excess water as this will affect the product performance and finish. For trowel/hand application mix in a clean bucket using clean cold water, as warm water will greatly reduce the product's working time and may result in shrinkage.

Pour 5.625 litres of water into an oversized bucket (20+ litres), and then gradually add the powder whilst mixing continually with an electric drill with power whisk. When all powder is added mix for a further 2 minutes, keeping the whisk below the surface (to minimise air entrapment) until a lump free creamy material is attained. Once mixed, the product can be applied by pouring onto the floor and spreading with a smooth edge steel trowel. Plan to begin at the furthest point working back towards the point of entry to avoid walking through wet product. Maintain a wet edge to ensure adjacent mixes blend in correctly. For large areas or deep sections, it may be beneficial to batten off areas into sections. Keep free from floor traffic and other trades whilst curing.

Safety

Please ensure that appropriate PPE is used when preparing, mixing, and applying products. Always wash hands before consuming food and make sure that materials are kept safely out of reach of children and animals. Please dispose of packaging and waste appropriately. A full Material Safety Data Sheet relating to this product is available from Vebro Polymers Ltd.

Cleaning & Maintenance

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

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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.vebropolymers.com

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