

vebroscreeed R&S

vebroscreeed R&S is a transparent, solvent free, ready to use two component substrate reinforcement epoxy resin having a low viscosity. Specifically, it is able to penetrate into the pores of a suitably prepared sand / cement screed or diffuse into fine cracks and fissures of all hydraulic cement based semi dry and self-levelling screeds.

vebroscreeed R&S is used as a substrate strengthening penetrative resin re-enforcement for the stabilisation of hydraulic cement-based sand /cement screeds. It can be used for both indoor and outdoor purposes.

vebroscreeed R&S can also be used as a ultra-low viscosity repair resin for filling of small cavities and cracks that can occur in both semi dry and fluid self-levelling hydraulic cement based screeds.

Substrate Preparation

vebroscreeed R&S can be applied directly onto the suitably mechanically prepared surface if the substrates moisture content does not exceed 4 CM % or 75 % RH and is visibly dry.

All traces of contaminants such as fats, oils, greases, paint residues chemicals , algae and cement based laitance should be mechanically removed. Cracking and hollowness on the substrate must be appropriately remedied.

Before application of the **vebroscreeed R&S** product the adhesive strength of the substrate must be appropriately determined to determine the approximate consumption of material for screed strengthening purposes and correct level of application. After application of the product the substrate should have a compressive strength of greater than 25 N/mm² and an adhesive strength of no less than 1.5 N/mm², which should be appropriately determined in accordance with BS 8204 -1: 2003 + A1:2009 and BS EN 13813:2002 requirements.

Application Instructions

The product is delivered in 2 component containers in the correct factory filled stoichiometric quantities. The entire contents of the B component container is emptied into the A component container, and mixed with a suitable slow speed electric drill and paddle for approximately 3 – 4 minutes the mixed product is then poured into a suitably clean dry container and briefly mixed again. The inclusion of air during the mixing process should be avoided by ensuring that the mixing head is kept fully immersed in the mixed product.

Liquid Mixture

Consumption

- For strengthening weak sand cement screed...
- 1.0 – 5.0 kg/m² (typically)
- Average consumption 2.0 – 3.0 kg/m²
- Weaker areas up to 5.0 kg/m²
- Stronger areas may be able to manage with 0.6 – 1.0 kg/m²
- For repairing cracks in screeds...
- 0.11 kg per linear metre (for a 10.0 mm × 10.0 mm joint / crack)
- For stitch pinning repair to de-bonded screeds...
- Drill 12.0 mm diameter holes through the screed in de-bonded areas at no more than 100.0 mm centres
- 1.0 – 5.0 kg/m²

Application Temperature

10 – 30°C
(min 3°C above dew point)

Packaging (Unit Sizes)

18.0 kg (14.2 kg A + 3.8 kg B)

Colour

Transparent

Shelf Life

24 months in closed original container

Storage

Dry area at 10 – 25°C, avoid direct sunlight.

Working Time*

For screed strengthening approx. 50 mins @ 20°C

Foot Traffic**

For screed strengthening 8 – 12 hours @ 20°C

Overcoating Window

Within 8 – 15 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.

* The working time applies from the point at which the material is poured onto the floor. At higher temperatures, the application time is shorter.

** High humidity in the early stages of cure can result in white, matt surfaces (blooming). Do not cover or wash within the cure period.

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Substrate Strengthening

If used for substrate strengthening purposes the mixed product is poured onto the substrate and spread using a suitable rubber squeegee blade and finished with a short pile mohair roller. If a resin coating system is to be applied, it is recommended that the cured resin surface of the substrate is primed with **vebro** EP Universal Primer before applying the coating.

Alternatively, if the **vebroscreeed** R&S strengthened substrate is to receive a self-levelling screed, then the wet / uncured **vebroscreeed** R&S can be blinded to excess with either 1.0 – 2.0 mm or 0.7 – 1.2 mm dry silica quartz sand. Allow the **vebroscreeed** R&S to cure and then remove the excess unbonded sand.

Crack Repairs

If used for crack repairs the crack should be opened up using an appropriate saw cut where necessary, and the **vebroscreeed** R&S is poured into the clean and dry crack using a small suitably lipped jug or indoor watering can. Top up the cracks as required with the mixed resin, where the flow of the R&S can not be controlled, dry silica sand (60 or 95 mesh) can be used to bulk out the resin by pouring the sand into the crack firstly. Ensure that all the sand is wetted out with the R&S resin. Remove surplus resin from the top of the cracks as required and finish flush to the top of the crack with either a flat ended knife or small trowel.

Stitch Pinning

For stitch pinning of de-bonded screeds, drill 12.0 mm diameter holes through the screed in de-bonded areas at no more than 100.0 mm centres. Vacuum clean to remove dust and debris. Pour the mixed **vebroscreeed** R&S into the holes and top up until no further material is absorbed (injection packers can be used for this purpose, the material is pressed / forced into the packer until the resin comes out of the next packer). Finally cap the hole off with epoxy putty or a suitable semi dry epoxy mortar and prepare the surface as required to receive subsequent floor finishes.

Please note; overcoating of the non-quartz sand blinded **vebroscreeed** R&S within 15 hours after the initial application at 20°C.

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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