vebro polymers

vebrocrete PU Cove

vebrocrete PU Cove is a 3-part, trowel applied polyurethane concrete resin cove mortar, used to form cove base details with a seamless matt smooth finish, which can additionally be over coated with **vebro**crete PU Cove to provide the highest order of durability, and impact resistance with resistance to abrasion, chemical attack, and other forms of physical and mechanical based surface activity.

vebrocrete PU Cove is resistant to organic acids, dilute mineral acids, vegetable and animal fats, petroleum oils and solvents, and suitable in industrial situations subject to exposure to high chemical, and mechanical impact as for example in dairy, food & beverage production facilities, warehouse & distribution centres, chemical and pharmaceutical processing plants, and laboratories.

Substrate Preparation

The substrate should be sound with a minimum compressive strength of 25 N/mm^2 and a minimum pull-off strength of 1.5 N/ mm^2. The surface must be clean, dry, and free of contaminants such as dirt, oil, grease, coatings, and surface treatments.

The concrete substrate must be a minimum of 28 days old and the residual moisture content must be a maximum of 97% RH (Relative Humidity).

Concrete or suitable polymer modified screed substrates should be mechanically prepared using captive vacuum enclosed shot blasting, or by appropriate diamond grinding to remove surface cement based laitance and previous surface treatments leaving an open textured mechanically prepared surface.

Weak concrete / polymer modified screed must be removed and repaired using recommended Vebro Polymer products. In order to ensure the installed system remains fully bonded to the substrate it is recommended that all terminating edges are rebated to produce a cross-section "anchor chase" of 5.0 mm deep by 5.0 mm wide, stepped out at 150.0 mm from and parallel with the walls i.e. day joints, movement joints, floor edges, door thresholds, upstands, plinths, etc.

Liquid Mixture

Consumption
1.4 kg/lm for 2.0 mm thickness
2.8 kg/lm for 4.0 mm thickness
3.7 kg/lm for 6.0 mm thickness
5.6 kg/lm for 9.0 mm thickness

Assumes a 100.0 mm high, 50.0 mm radius cove, 100.0 mm out from the wall.

Film Thickness
2.0 – 9.0 mm

Application Temperature
15 – 25°C

Packaging (Unit Sizes)
16.30 kg

Colour
Refer to Vebro Polymers' Colour Chart

Shelf Life
12 months in original unopened containers, 6 months for aggregate / filler C component.

Storage
Dry conditions 10 – 25°C, avoid direct sunlight, protect from frost.

Working Time
15 mins @ 20°C

Overcoating Window
18 – 48 hours @ 20°C (some mechanical preparation maybe required)

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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CE EN 13813 SR-B2, 0-AR0,5-IR20

Application Instructions

Priming

Apply **vebro** EP TX with either a paint brush and / or by short pile mohair or sponge roller to the prepared surface. The consumption rate is approx. 0.25 – 0.30 kg/m^2 depending on the surface roughness and porosity. If the overcoat window is exceeded the cured primer must be mechanical prepared and then re-primed using **vebro** EP TX primer. **vebro**crete PU Cove is then applied into the tacky primer by means of a steel trowel and steel coving trowel.

Please note, if the surface is excessively porous it may be necessary to apply subsequent coats of the priming material until the substrate is fully sealed before applying **vebro**crete PU Cove.

Mixing

Pre-mixing of the coloured liquid A component is essential to ensure any light pigment settlement is reincorporated. The contents of the curing agent container should be drained into the pre-mixed base component and the two materials thoroughly mixed. The mixed liquid should then be poured into a clean suitably sized separate mixing container and the aggregate component slowly added under constant mixing using a suitable slow speed electric mixer fitted with either a single or double mixing paddle or by using a forced action (rotary drum) type compulsory mixer until a uniform free flowing consistency has been achieved.

Application

Apply by steel trowel and / or steel coving trowel directly into tacky **vebro** EP TX primer. Do not allow primer to cure to tack free state as this could lead to application/ adhesion problems if primer does get to tack free state an additional coat of **vebro** EP TX should be applied.

The ambient temperature of the installed area should be a minimum of 15°C during the application and curing period, if not adhered to this can affect the colour and appearance of the system.

Materials and substrate temperature must be above 10°C.

Please note:

- Product should be protected from other trades using Kraft paper or similar breathable material e.g. Correx sheet. Polythene should not be used.
- Protect the installed floor finish from damp, condensation, and water for at least 24 hours at 20°C.
- Ensure that the ambient temperature remains above 10°C for at least 24 hours after installation.
- As with all aromatic based polyurethane products light colours exposed to UV light, **vebro**crete Cove will be prone to cosmetic discolouration (yellowing of the surface), however this does not affect the physical or chemical resistance properties of the installed product.
- The substrate and uncured floor finish must be kept at a temperature at least 3°C above the dew point to reduce the risk of condensation or blooming on 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 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.

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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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Registered office: The Court, Kestrel Road, Trafford Park, Stretford, Manchester, M17 1SF, UK. VAT registration number: GB 336 7990 57