

Vuba-Screed Duratop



DIY Mixing



Self Smoothing

Product Description

Internal concrete resurfacing screed.

Introduction

Duratop is a cementitious self-levelling floor topping designed to resurface old, worn and damaged concrete on warehouse and industrial floors when rapid strength and durability are a high priority. This concrete resurfacing screed is suitable to be left as a wearing finish subject to internal heavy duty traffic.

Composition

Protein free, polymer rich cementitious screed incorporating recycled raw materials.

Size

25kg

Components

Supplied in labelled bags.

Tip: Purchase a plastic or metal Vuba mixing tub separately for easy DIY mixing.

Coverage Guide

You will typically achieve up to 3m² @ 5mm thickness with a 25kg bag of resurfacing screed. The thickness applied directly affects the coverage achieved. Therefore uneven substrates should be accounted for when calculating required material. Various site conditions and application techniques may have an effect on the application rate so please contact us if you require further advice.

Tip: Avoid overestimating the coverage and be sure not to under order. Finishing off another day may have implications on your resurfacing screed appearance and strength.

Appearance

Duratop is designed for use as an industrial wearing surface in a natural grey colour.

Note: The final appearance of Duratop screeds will depend on how it is worked, drying conditions and the thickness of the layer applied. For this reason, the surface may differ from hard samples or trial applications which should be taken into consideration when installing in domestic or design features.

Colour variation may occur which does not affect the consistency or characteristics of the product.

Availability

We aim to dispatch all standard orders received before 12pm for next day delivery. Non-stock items may take up to 3-5 days.

Typical Installations

Duratop concrete resurfacing screed is used most commonly as a direct wearing layer in internal industrial and domestic environments. Popularity for use in industrial loading bays and commercial or domestic garages is down to the hard wearing properties offered by this concrete resurfacing screed whilst maintaining excellent self-levelling properties for an attractive finish.

Anti Slip

Your concrete resurfacing screed will cure to a smooth surface finish offering little natural slip resistance.

Tip: Use Vuba-Adsafe scatter to sparingly broadcast over your freshly applied and rolled resurfacing screed. This will cure to provide extra slip resistance if required.

Thickness

Each layer application should be kept between 5mm and 15mm. **Important:** If applying in more than one layer, the priming process must be repeated to ensure a successful bond. Duratop applications on Calcium Sulphate / Anhydrite / Hemihydrate Screeds should not exceed 10mm.

Durability

Duratop resurfacing screed incorporates a hard-grain additive which helps to offer high bonding, compressive and tensile strength and exhibits the highest order of abrasion resistance capable of receiving regular internal heavy duty traffic.

Substrates

Duratop concrete resurfacing screed is suitable for levelling concrete slabs, rough concrete floors, and cement screeds. For alternative substrate enquiries please contact us first.

Important: Underfloor heating should be turned off 48hrs before application and gradually turned back on again 48hrs after the curing period.

Samples

To ensure that you are choosing the right product for the job, we always recommend purchasing an appropriately small amount to trial first. This allows you to gauge the achievable coverage as well as seeing the type of finish in person, which may sometimes appear differently to on the screen or printed out. This is also a good chance to practice the application method which may be a useful process if previous experience with self levelling screeds is limited. Hard samples may also be available upon request and can usually be posted within 1-2 days.

Preparation

To ensure maximum adhesion and performance from Vuba products the correct preparation methods must be adhered to. Please see our 'Vuba Floor Preparation Data Sheet' for detailed information to be read and understood before application. The concrete substrate must be structurally sound and free of old coatings, concrete laitance and any contaminants which may impair adhesion during application. The concrete should have a profiled textured surface, which can be achieved by shot blasting, grinding or acid etching. For areas which are contaminated by oil or grease, clean thoroughly with our Degreaser. All dust and debris must be vacuumed away to leave a clean, dust free surface.

Tip: Ensure you have a mixing area clearly set out and you have planned the application process well before mixing, ensuring all tools are ready to be used so that the product working time can be used effectively.

Important: If Duratop is to receive a resin coating then the product must be protected from rising moisture including residual construction moisture. Contact us for more details.

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Priming

Prime the substrate with Vuba-Epiprime two part epoxy primer then broadcast fully with Vuba-Adsafe Quartz Aggregate (contact us for guidance) and allow to harden. Ensure that the surface is a 'sand carpet' and that there are no 'bald' patches of resin without aggregate encapsulation. Where subfloors have significant moisture levels and/or resin coatings are to be applied it is recommended that the subfloor be treated to suppress moisture using Vuba-Prime Hydraguard (see datasheet). Primer should be sand blinded whilst still tacky, allow to fully cure before brushing away excess sand and applying Duratop.

Note: As a cost effective alternative for rough surfaces, some users may choose to apply Vuba-Uniprime acrylic primer. Please consult Uniprime Data Sheet for dilution and application instructions.

Application Conditions

Indoor ambient and substrate temperatures should not be below 6°C during application and for 7 days after. Ensure light ventilation during installation but avoid draughts which can cause localised rapid drying, affecting the cured appearance of your concrete resurfacing screed.

Mixing

Duratop concrete resurfacing screed can be mixed by hand drill and spiral paddle or with conventional pump machines using a positive mixer. Continuous mixers are not recommended. Pour 5.5 litres of clean cold water into a clean mixing container and add the 25kg bag slowly whilst continuously mixing. Mix thoroughly for at least 3 minutes keeping the whisk below the surface (to minimise air entrapment) until a homogenous mortar with good flow properties has been achieved. Once thoroughly mixed, pour and apply your resurfacing screed immediately to ensure the product working life is utilised efficiently.

Note: Lower temperatures increase and higher temperatures reduce working time.

Important: The mixing ratio should be carefully observed since the quality of execution and working depend on it.

Application Technique

Immediately after mixing, pour Duratop resurfacing screed onto the prepared substrate and distribute in the desired layer thickness within 20 minutes. This product self levels upon distribution but light trowelling or guidance with a squeegee is often recommended to achieve continuous application between each bag application. For larger areas over 500 m² the use of a positive pump mixer may be recommended. Additional rolling of the surface with a Vuba spiked roller immediately after distribution is

essential, creating a smoother surface since this improves de-airing of the material. Be sure to use a spiked roller whereby the spikes exceed the thickness of the screed being applied. Once applied, leave to cure and do not attempt to rework. Please see curing schedule below for timing guidance.

Note: Work in sections ensuring a wet, flowing edge is always maintained. Large sections may be sub-divided by temporary partition strips.

Tool Cleaning

Mixed Duratop can be removed from tools and equipment with clean water immediately after use. Cured material can be removed mechanically, or by acid etching. Splashes or spillages can also be removed with the help of Vubasolve and wiping with rags, being aware that solvent spillages may affect the appearance of your floor surface.

Cure Schedule (20°C)

Working Time:	30-40 mins
Foot Traffic:	2-3 hrs
Heavy Traffic:	36 hrs

Note: Depth of material, site temperature and humidity will affect drying times.

Tip: Duratop should be protected from drying out too quickly in highly ventilated or heated areas. It is always best to let flooring compounds cure naturally to achieve the desired strength and resistance.

Compressive Strength (to BS EN 13892-2)

28 Days:	41 N/mm
27 Days:	35 N/mm
21 Days:	25 N/mm ²

Flexural Strength: (to BS EN 13892-2)

28 Days:	7 N/mm
27 Days:	6 N/mm
21 Days:	5 N/mm ²

Technical Data

Abrasion Resistance
(to BS EN 13813:2002) AR 0.5

Slip Resistance
(to BS 8204: Part 1:2003) PTV60 Dry /PTV 46 Wet

Impact Hardness
(BRE Screed Test) 0.8mm (High Impact Resistance)

Overcoating

Inspect the surface of the hardened Duratop - in certain cases a slight surface film can be produced that will impair adhesion to coating. In these cases it is advisable to lightly abrade the surface before application. Always take moisture readings to ensure the substrate is dry enough to accept a coating, consulting the requirements on the coating technical data sheet. If you are not careful, the moisture levels may cause issues such as blistering and debonding.

Tip: Hire a Vuba hygrometer to be sure and get the timing right. A trial area is also recommended.

Movement Joints

Codes of Practice for building construction screeds state that all expansion joints, construction joints, columns and isolation joints etc. should be installed to allow the substrate slab to move freely relative to any fixed part of the building. Therefore it must be ensured that where Duratop is used over such substrates that the relevant joints are pre-marked and re-instated in the new installation to prevent stress induced cracking, caused by the sub-base. It is advised that these joints are re-instated by disc cutting through the Duratop along pre-marked indicators within 24-36 hours of installing the resurfacing screed.

Maintenance

Duratop concrete resurfacing screeds can be easily cleaned using Vuba-Supaclean heavy duty alkaline cleaner. For increased protection you may wish to overcoat with one of our paints, sealers or polish. Our tyre mark remover is also safe to use on this resurfacing screed if required.

Tip: For a longer lasting Duratop screed, general good housekeeping is always worthwhile. You ought to clean regularly and ensure any chemical spillages are immediately addressed.

Storage

Store in closed original container at temperatures between 5°C and 30°C. Avoid frost and direct sunlight. Store clear of the ground in cool dry conditions and protect from excessive drafts. If stored correctly and used within 6 months of the date shown on the bag, the activity of the reducing agent will be maintained and this product will contain, when mixed with water, no more than 0.0002% (2ppm) soluble Chromium (VI) of the total dry weight of the cement. Shelf life in correctly sealed bags is 6 months. Note: the use of this product after the end of the declared storage period may increase the risk of an allergic reaction.

Health and Safety

Please read the relevant Material Safety Data Sheets provided in compliance with the requirements of EC Directive 91/155 before commencing application.