

Vuba-Screed Ultracrete



High Strength



Hygienic

Product Description

Heavy Duty Food Safe Polyurethane Floor Screed

Introduction

Vuba-Screed Ultracrete is a food safe, non-taint polyurethane floor screed designed to provide a long lasting and extremely hard wearing surface with a textured non slip finish. Ultracrete provides excellent chemical and abrasion resistance ideal for commercial and industrial environments requiring an easy to clean, hygienic and durable anti-slip flooring solution available in a range of colours.

Composition

Aggregated polyurethane resin system.

Size

30kg Unit

Components

Each unit of Vuba-Screed Ultracrete comprises of three components: Resin A, Activator B and Aggregate C.

Note: All components are pre-weighed and ready to mix in their entirety.

Coverage Guide

You can typically achieve up to 2.5m² at 6mm or 1.66m² at 9mm with a 30kg unit, depending on the substrate type, condition and application technique. Even and level surfaces are more likely to achieve the full coverage than very rough substrates.

Tip: Try to avoid under ordering and leaving yourself short on material. Applying in sections will not guarantee a uniform finish.

Appearance

Ultracrete provides a textured and easy to clean matt coloured surface, in a modern and hygienic finish.

Availability

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

Typical Installations

Ultracrete is ideal for wide range of both wet and dry industrial environments. This hygienic food safe floor screed is commonly used in breweries, food factories and dairies as well as pharmaceutical and chemical facilities. Typically installed in areas where high abrasion, chemical and slip resistance to the highest standards is required.

Anti-Slip

Vuba Food Safe Polyurethane Floor Screed provides a suitable surface for dry and wet areas with excellent anti-slip properties reducing the risk of slips and trips. The slip resistance of an Ultracrete floor surface can vary as a result of the installation process, conditions at the time of application and subsequent traffic.

Durability

This heavy duty polyurethane floor screed cures to a very high level of impact, abrasion and chemical resistance for the most demanding and aggressive industrial applications. The life expectancy is 10 years plus subject to industrial traffic, if applied correctly and maintained appropriately. This life expectancy is also variable on the level of traffic exposure.

Thickness

Ultracrete is applied at a minimum of 6mm thickness and 9mm when extra strength or resistance to extreme temperatures is required, including cold stores and steam cleaning. For thicknesses significantly above 9mm, you should build up with a suitable polymer modified screed or mortar. Contact us for product guidance and advice.

Substrates

Ultracrete adheres well to structurally sound and stable concrete and cementitious screeds. The recommended strength is a minimum of 25N/mm². Please contact us for alternative types of substrates types prior to application for specific preparation guidance.

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 and colour 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 polyurethane flooring is limited. Hard samples are also 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 more information which may prove useful before application.

Note: To ensure the maximum bond is achieved, grooves should be cut into the perimeter of the subfloor. Typically 20mm deep by 8mm wide, approx. 150mm from the walls and adjacent to any doorways, joints, drainage etc.

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 pot life can be used effectively.

Priming

Ultracrete is generally self-priming. However porous and weak concrete surfaces should be primed first with Vuba-Epiprime. In some instances (e.g. moisture and oil contamination), a specialist primer may be required. Please contact us if you require further advice.

Application conditions

Verticrete should be applied in temperatures over 8 °C, with no condensation and the surface temperature must be in the range of 5-20 °C.

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Colours



Marigold Yellow



Salsa Red



Forrest Green



Kingfisher Blue



Sterling Grey



Flint Grey

Note: The colours represented here act as a guide only. If the colour or final aesthetics are of prime concern, please contact us and request an actual sample of the required colour and product. Colour matching to RAL or BS can be offered on request from the Technical Department. We reserve the right to adjust or discontinue any colour in any range.

Important: Ultracrete may alter colour with time under the effect of UV light however this does not in any way affect the durability of the floor finish. Darker colours will not show this effect as much as light colours.

Mixing

Pre-mix the coloured resin component to ensure the re-dispersion of any settled pigment, then add the activator, mixing both components together thoroughly for at least one minute until even coloured with a slow speed drill & paddle. Then add the Vuba-Screed Ultracrete aggregate slowly whilst mixing continuously. Allow to mix for a further 3 minutes until a uniform coloured, lump-free mix is obtained.

Important: The use of a forced-action rotary drum mixer is recommended to produce a smooth even finish. These can be hired from your local tool hire station. An effective DIY alternative is a heavy duty drill and paddle but be sure to mix thoroughly and never use a standard cement or bell mixer.

Application Technique

Pour out immediately and spread the mixed Ultracrete to the required thickness using a steel float or flooring trowel, ensuring that anchor grooves are completely filled. Make sure you apply to a wet edge each and every time.

Tip: Clean your trowel regularly with Vubasolve to prevent sticking and to improve the surface finish. Lightly roller the finished screed with a short pile nylon roller to reduce slip resistance if required.

Tool Cleaning

Vubasolve xylene solvent can be used to clean any reusable tools. Splashes or spillages can also be removed with the help of Vubasolve and wiping with rags.

Cure Schedule (20°C)

Pot life of full units*	15 minutes
Light traffic	12-16 hours
Full traffic	48 hours
Full chemical resistance	3-5 days

* Usable working life of material following mixing and immediate spreading as per the application instructions. The above cure times are approximate and given as a guide only. These times can vary due to prevailing site conditions including ambient temperatures.

Maintenance

This food safe floor screed can be easily and regularly cleaned with a floor scrubber utilising Vuba-Supaclean heavy duty alkaline cleaner to enhance and maintain the life expectancy, slip resistance and appearance of the floor. Inappropriate cleaning or maintenance can adversely affect the anti-slip performance of the screed.

Note: Vuba-Screed Ultracrete is stable to steam cleaning, hot water and process liquids exposure up to 120°C when applied at a thickness of 9mm.

Important: Good housekeeping practices should be employed and any spillages removed immediately.

Technical Data

Chemical Resistance:	Excellent
Temperature resistance:	up to 120 °C at 9mm Type 8
FeRFA Category	
Abrasion Resistance (Method BS8204 /ASTM D4060)	0.04mm (Average Depth of Wear)
Compressive Strength	60 N/mm ²
Flexural Strength	14 N/mm ²
Tensile Strength	6 N/mm ²
Reaction to fire classification	BFL - S1 (EN 13501-1:2007+A1:2009)
Slip resistance (Method BS7976 pt1-3 2002):	> 50 dry (low) / > 45 wet (low) (Low slip potential)
VOC	9 g/l (full mixed unit)
Life Expectancy	10 years plus

Storage

Store off the ground in un-opened packs in a dry store, keep out of direct sunlight. Store in a dry place, not below 15 °C.

Shelf Life

12 Months - Resin and Hardener
3 Months - Aggregate

Health and Safety

Please refer to the Vuba-Screed Ultracrete Safety Data Sheet before use, provided in compliance with the requirements of EC Directive 91/155.