

Vuba-Repair Polycrete



DIY Application



Product Shot

Product Description

Heavy duty concrete and asphalt repair mortar.

Introduction

Polycrete is a polyurethane repair mortar for deep fill or feather edge concrete or asphalt floor repairs. Based upon solvent free polyurethane resin technology, this three part repair mortar cures to higher strengths than that of concrete itself and can be applied onto concrete and asphalt, indoor or outdoor. Although this heavy duty floor repair mortar is generally intended for use as an infill or underlayment prior to overcoating, Polycrete provides a fully sealed impervious surface so can be left as a wearing finish in most instances.

Composition

Solvent free polyurethane resin system reinforced with graded silica sands.

Size

28.2kg Unit

Components

Each unit of Polycrete comprises of Resin A, Activator B and Aggregate C. All three components are pre-weighed and designed to be mixed at the supplied ratio.

Coverage Guide

You can typically achieve up to 1.4m² at 10mm thickness with a 28.2kg unit depending on the substrate type and condition. Smoother surfaces are more likely to achieve the full coverage than very rough and damaged substrates. The thickness applied directly affects coverage achieved. Please contact us if you require further advice.

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

Appearance

Polycrete cures to a trowel applied, smooth grey pigmented finish.

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

This heavy duty repair mortar is generally used for large repairs to concrete or asphalt floors, indoor or outdoor. Polycrete can be used to repair worn or damaged flooring prior to overcoating or overlay by providing a level and robust surface finish which excellent bonding strength and durability. This repair mortar can also be left as a wearing finish, which is often the case in external car parks or loading bays where a heavy duty repair to concrete or asphalt is required. Besides repairing floor patches, Polycrete can also be used to resurface floors, ramps and steps, and is capable of being feather edged to match existing flooring levels.

Anti Slip

If slip resistance is specifically required, our anti slip additive Vuba-Adsafe can be broadcasted immediately after application to provide increased anti slip performance. Please contact us for further guidance or consult the Vuba-Adsafe product data sheet.

Note: The 'fine' grade would be adequate for most applications, including outdoor environments.

Durability

Polycrete is designed to provide very heavy duty physical strength either as an underlayment or wearing finish. This repair mortar provides physical strengths well in excess of conventional standard concrete.

Thickness

Polycrete repair mortar can be applied from a feather edge right up to depths in excess of 150mm with no requirement for layer application.

Substrates

Polycrete offers superb adhesion to a number of substrates such as concrete, grano and asphalt, subject to priming requirements. Please contact us for alternative substrate queries.

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 three part repair mortars 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 more information. Surfaces must be free from grease, oil and other forms of contamination including any loose material.

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

We always recommend priming with our epoxy tack coat primer before applying Polycrete repair mortar. This allows for a high strength chemical bond to the substrate. Please consult the relevant data sheet or contact our sales team for guidance.

Tip: If the substrate is very porous or weak, try applying a first coat of Epibond and leaving to cure. You should then apply your heavy duty repair mortar onto a second coat of Epibond whilst still tacky. This will ensure a successful chemical bond to the surface which is often compromised by directly applying onto porous surfaces.

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Application Conditions

You should always aim to apply Polycrete in well-ventilated areas and maintain application and subsequent cure temperatures between 0°C and 25°C. Applying in temperatures outside of this range may affect the subsequent performance of the product and prevent effective curing.

Mixing

Mix the resin and hardener units together thoroughly for at least 60 seconds until even coloured. Then add the Polycrete aggregate slowly whilst mixing continuously. Allow to mix thoroughly for a further 3 minutes before application until the mortar is completely homogenous.

Important: The use of a rotary drum mixer is always recommended for a thorough mix. These can be hired from your local tool hire station.

Application Technique

The mixed repair mortar is applied immediately to the wet tack coat primer. Compact and smooth over with a Vuba flooring trowel within the product working time. Depending on the application, the use of laths and/or screeding bars may be necessary to ensure a level surface is maintained. See below cure schedule for timing guidance.

Tip: Brush your trowel clean regularly with Vubasolve xylene solvent during application. This helps to achieve a smooth, professional finish and neatly sealed edges. By doing this you will also avoid overworking the material which can be detrimental to the cured finish.

Tool Cleaning

Vubasolve xylene solvent should 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)

Working Time:	15 minutes
Light traffic:	6-8 hours
Heavy Traffic:	12-16 hours
Overcoating:	16-72 hours
Full cure:	3-5 days

Note: Higher temperatures will decrease and lower temperatures will equally increase curing times.

Technical Data

Compressive Strength:	50-60N/mm ²
Flexural Strength:	15-20N/mm ²
Tensile Strength:	10-12N/mm ²

Note: For any specific technical data not stated above, please contact us for guidance.

Chemical Resistance

Although effective as a final wearing finish, for improved chemical resistance we usually recommend overcoating Polycrete with a suitable resin system. Please contact us if guidance is required.

Maintenance

Polycrete floors can be easily cleaned using Vuba-Supaclean heavy duty alkaline cleaner. For increased protection you may wish to apply Vuba-Supasheen high solids floor polish or for a thicker sealed finish we would recommend one of our two part coatings or sealers. Our tyre mark remover is also safe to use on this polyurethane repair mortar if required.

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

Health and Safety

Please ensure that the relevant material safety data sheets provided in compliance with the requirements of EC Directive 91/155 are read and understood before applying this product. Contact us if you require further guidance.