

# CONCRETIS PCV

POLISHED CONCRETE VENEER



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Concretis Polished Concrete Veneer is revolutionising flooring, making polished concrete as easy as laying tiles. Unlike Polished Concrete slabs which need to be installed at 100mm depth Concretis PCV is able to be installed at 15mm with a finished depth of only 10-12mm.

Based on the Gold Coast we supply and install our systems in a range of projects including commercial, retail, residential and educational projects

# Technical Data Sheet

## Product Description

Concretis Polished Concrete Veneer is made up of special quick drying and quick setting binders, specially graded silican sand, synthetic resins and special admixtures. The product is mixed on site and hand trowelled to an average depth of 15mm. After a short cure time Concretis PCV is then mechanically polished to your desired gloss level. Concretis Polished Concrete Veneer is designed for an indoor application but can be installed in enclosed balconies or covered external areas.

## Benefits

- Available in a range of colours and aggregates, Concretis Polished Concrete Veneer can also be customised to suit any project and design palette.
- Mechanically polished and sealed to provide high scratch and stain resistance. Minimal ongoing maintenance required.
- Fast curing time, 3 hour turnaround for foot traffic, 48 hours before the grinding and polishing process can begin.
- Strength:  $\geq 40$  MPa compressive strength after 28 days
- Easy and simple. Mixed on site, no trucks, pumps, traffic control.

## Sustainable

Concretis Polished Concrete Veneer eliminates waste and off cuts by being prepared and installed in situ. Concretis PCV is made up of approximately 50% natural stone which means it is very environmentally friendly.

Concretis Polished Concrete Veneer is non allergenic and will not harbour dust mites as you might find in carpet and in some tiles. Concretis cannot be damaged by moulds, mildew, dust or humidity provided the correct maintenance is adhered to.

## Maintenance

Concretis Polished Concrete Veneer is a low maintenance flooring option. Regular cleaning with a microfibre mop and a pH neutral cleaner will provide sufficient care in maintaining the floor.

If Concretis PCV is exposed to acidic or solvent based materials they are required to be cleaned up immediately. ie. red wine, lemon juice, vinegar, sauces etc

## Standards Compliance

Concretis Polished Concrete Veneer is classified as CT - C40 - F10 - A9 - A2fl-s1 according to EN 13813:2002 Standards. CT refers to a cementitious based product, C40 and F10 refer to the compressive strength and flexural strength, respectively, after 28 days. A9 is the Bohme abrasion-resistance coefficient and A2fl-s1 is the fire-reaction class.

## Application

Installation must be carried out by a Concretis certified and trained installer.

Substrate must be stable, clean, dry and free from any oil, dust or other objects that may interfere with the installation.

Concretis must only be installed in areas above 5 degrees Celsius and below 35 degrees Celsius.

## Cold Installation

Installing Concretis Polished Concrete Veneer in cold atmospheric conditions will prolong the cure time and may reduce the rate of strength. Installation below an atmospheric temperature of 15 degrees Celsius will require mechanical measures such as heating appliances to increase room temperature and to accelerate cure time. Warm water used in mixing may also accelerate cure time.

## Warm Installation

Atmospheric temperatures above 25 degrees will accelerate cure time and may increase the strength rating. To prevent accelerated curing mechanical measures such as fans and air conditioning may be required. Chilled water when mixing may prevent accelerated curing.

## Coverage

20kg Concretis PCV Binder  
20kg Nominated Aggregate  
1sqm at a depth of 15mm

## Storage

Concretis Polished Concrete Veneer remains stable for 12 months if stored in a cool dry place  
If stored for longer periods, the cure time of Concretis PCV may increase but without affecting its final characteristics.

# Technical Data Sheet

## Safety Instructions

Concretis Polished Concrete Veneer contains cement that when in contact with sweat or other body fluids may cause irritant alkaline reactions and allergic reactions to those predisposed. It can cause damage to eyes. It is recommended to use protective gloves and goggles and to take the usual precautions for handling chemicals. If the product comes in contact with the eyes or skin, wash immediately with plenty of water and seek medical attention.

For further and complete information about the safe use of our product please refer to the latest version of our Safety Data Sheet.

## User responsibility

Concretis Polished Concrete Veneer is a non-structural overlay. It will not prevent or restrain movement to the substrate. Excessive movement, vibrations, and existing cracking joints to the substrate may result in micro cracking.

Before using Concretis PCV refer to the current SDS sheet. It is the users responsibility to review and adhere to the instructions and warnings.



# Care and Maintenance

## Post Installation

On completing the installation a penetrating sealer or surface coating will be applied. Do not attempt to wash the floor for at least 24 hours after completion. This allows the sealer to properly cure in and on the surface of the Concretis Polished Concrete Veneer. If the floor is to be protected we recommend a breathable protection material such as Buffalo Board, etc. A breathable cloth tape should be used in conjunction with the Buffalo Board but never adhere the protection material directly to floor with adhesive tape, the adhesives used in tape will etch the finish of the Concretis PCV.

## Regular Cleaning Procedure

To remove residue fine dust for the first clean after installation use only cold water and a microfibre pad, Rinse the microfibre pad regularly in clean water.

## On going cleaning

Regular cleaning should be done using either a microfibre mop or good quality "Steam Mop", warm water is fine with addition of a pH Neutral floor cleaner. Never use methylated spirits, vinegar or chemicals that have acid, caustic or alkaline additives. These products will etch the surface.

Stubborn stains like grease, oil or sticky food substances can be cleaned by spraying a liberal amount of pH Neutral cleaner, diluted with hot water, directly to the stain and gently rubbing with a soft sponge or microfibre cloth and rinsed thoroughly with clean hot tap water to remove residue, allow to air dry and repeat if necessary.

For commercial environments we recommend the use of an auto scrubber with a white scrubbing pad and pH Neutral Floor Cleaner followed by a Maintenance Polishing Pad beneath a high speed commercial floor burnisher (1,500rpm or greater). This system should be implemented on a monthly basis to maintain the lustre of the finish.

Products to avoid coming into contact with the floor  
Acidic products such as but not limited to - vinegar, lemon juice, tomato sauce, red wine, white wine etc. Some of these products are used as cleaners and their use should be avoided and if used or spilt should be cleaned up immediately and floor rinsed with clean water and pH Neutral Floor Cleaner.

Alkaline products such as but not limited to - oven cleaner, shower cleaner, window cleaners and toilet cleaners etc that have chlorine additives such as "Domestos, "Windex" etc. Some of these products are used as cleaners and their use should be avoided and, if used or spilt, should be cleaned up immediately and floor rinsed with clean water and pH Neutral Floor Cleaner.

Oil based products such as cooking oil, motor oil or any Low Viscosity mineral, vegetable or animal based oils should be immediately cleaned up with hot water and a couple of drops of pH Neutral Floor Cleaner. This step may need to be done more than once and finally rinsed with fresh cold water.

## **NEVER SCRUB THE FLOOR SURFACE WITH ABRASIVE CLEANING PRODUCTS**

NOTE - When any spills occur be sure to clean up to

avoid any potential damage, this includes the use of the above products if used to clean adjacent surfaces  
Concretis Polished Concrete Veneer is like any high end polished surface, like "Caesarstone" bench tops and natural stone floor products and will damage if exposed to the aforementioned chemicals, a caring approach will avoid unnecessary damage and prolong the aesthetic life of the floor

## **Maintenance - Long Term Mechanically Polished Finish Domestic use**

If your new floor is in the home, long term maintenance is fairly minimal. A clean, rebuffer and reapplication of the penetrating sealer is a quick and cost effective way to maintain the long term resilience and beauty of the product. We recommend this maintenance procedure every 5 years.

## **Commercial Use**

In commercial environments we recommend this maintenance procedure every one-two years, depending on foot traffic.

## **Polyurethane Sealer Option**

A UV stable two part polyurethane, water based sealer is available in Matt and Satin and provides high wear and chemical resistance. Normally applied to commercial, high traffic areas and where maximum chemical resistance is required. Normally reapplied every 5 years depending on wear and tear. Residential applications may require reapplying every 5-7 years depending on wear and tear. Note - As with all applied or topical sealers, scratching of the coating may occur.

# Technical Overview

## Lead Times:

Depending on your colour selection and the availability of the aggregate from the supplier, lead times can be 2-4 weeks.

## Applicable Surfaces:

New or existing concrete slabs (existing slabs may require some crack repair prior to installation)

Tiles - site inspection required to confirm, no drumminess or cracked tiles

## Floor Preparation:

The substrate is ground and an epoxy primer is applied to the surface  
12mm aluminium angle is installed around the perimeter of the floor and where the Concretis will meet other floor coverings (ie in doorways). Any joins will occur in the middle of doorways.

## Underfloor Heating:

Concretis Polished Concrete Veneer can be installed over underfloor heating, Please contact Concretis to discuss the specifications required.

## Installation Height:

Concretis is installed at a depth of 15mm, after 2 days of curing the floor is then ground/polished to a finished depth of 10-12mm.  
Please note that if an aggregate of larger than 10mm is used the pour height will be deeper.

## Cure Rate:

Compressive Strength at 28 days: 30Mpa  
After 3 hours Concretis is sufficiently cured for light foot traffic  
After 2 days Concretis is ready for the grinding/polishing process.  
During the polishing process (up until the very last stage) other trades are able to continue working as long as any floor area is protected.

## Polishing Process

Concretis can be finished from 200 - 1500 grit (resin) depending on the gloss level you desire to achieve.

Concretis Polished Concrete Veneer can be installed externally on balconies and

covered external areas. We recommend a waterbased polyurethane coating with stir in aggregate for slip resistance.

## Our Installation Process:

Concretis is mixed on site and then applied by hand. Due to the nature of the product and the application method small areas of unexposed aggregate may occur. These are the natural characteristics of the product.

## Maintenance:

Concretis has a detailed maintenance guide that will be supplied once the floor has been completed. We recommend cleaning the floors at least once a week with a pH neutral cleaner and a microfibre mop.

For commercial floors buff with a Polivac monthly, depending on the foot traffic over the floor.

## TECHNICAL DATA

Consistency	fine powder
Colour	Grey/White/Neutral
Green Star Credits	very low VOC content
Traffic Time	light foot traffic 3 hours
Compressive Strength	at 28 days $\geq$ 30MPa cured at 23 degrees Celsius
Flexural strength	at 28 days $\geq$ 11MPa cured at 23 degrees Celsius



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