

# covet<sup>®</sup>

## Technical Overview

### Concrete Overlay

*The concrete overlay system is a made to order product created in Melbourne.*

#### Lead times

The product batching lead times are typically 2-4 weeks. Only the finest ingredients are sourced from premium Barossa quarry aggregate to the best cements and sands available.

#### Composition

Technically advanced Portland cement with low shrink, high strength characteristics with high grade sands and aggregates. (MSDS available upon request.)

#### Applicable surfaces

- i. Solid, flat new/old (crack-repaired) concrete slabs. When necessary Mapei UC Leveller can be applied to bring the floor height up prior to installing the concrete overlay.
- ii. Fibre cement sheet (ie 7-9mm sheeting from James Hardie). This would be applied over timber or flooring particle board. Joints need to be sealed.
- iii. Solid, flat tiles with no drumminess or cracking.

#### Floor preparation

- i. A proprietary acrylic primer and screw anchoring system is specified (see full install instructions). This is applied to the above clean surfaces.
- ii. 12mm (indoors), 15mm (outdoors) aluminium edge strips are placed around perimeters (hidden by skirting) and at entranceways and to break up floors as expansion joints (contact Covet for floor plan review).

#### Flexible Expansion joints

When applying elastic joints within the floor please contact us for review.

#### Acoustic membranes

We recommend Regupol (or equivalent) acoustic underlays (installed to manufacturers specification) in collaboration with fibre cement sheeting. Please contact us for review.

#### Overlay pour height

- i. Interior - 12mm. then after minimum 7 days of curing (using proprietary spray on curing compounds) grinding back to approx. 10mm.
- ii. Exterior - 15mm. as above but cutting back to 13mm.

Additional mass required for extreme temperature swings.

Note: Covet Concrete Overlay is not self-levelling. It is best described as self-compacting so requires hand trowelling, screeding, and spike rolling to achieve a flat finish.

#### Cure rate

This concrete product will reach near peak strength at 28 days (hardens further over many years). However:

- after 24 hours it can be trafficked by trades (Recommended that it is covered as it is not sealed at this stage and could be susceptible to impact damage.)
- after 7 days minimum the surface is ready to be ground/polished.

#### Grinding/polishing

Typical desired finish is 200-400 grit (resins) to achieve a modern/matte finish. Although the product could be polished to a mirror finish if desired.

#### Wet areas

The product is suitable for wet areas provided it is ground to a honed finish for a non-slip result. The floor will not de-bond will if prepared according to the manufacturers install specification.

#### Sealing

The manufacturer recommends hardening of the concrete prior to polishing as well as a sealant that provides a satin finish. The sealer is best described as impregnating and surface coating. However, the sealant will not scratch, yellow, peel, craze or scuff. The sealant simply does not effect the modern aesthetic of the 'real concrete overlay'.

**For more information please contact us.**

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