



Oxtek Solutions Trusted Moisture Barrier

- Oxtek Solutions proprietary range of products make concrete impermeable providing long term protection of concrete and it's embedded steel reinforcement.
- Penetrates concrete up to 200mm providing an internal moisture barrier system for Floor coverings and Topical Coatings
- Cures, Densifies, Hardens and Dust-proofs concrete.
- Independent testing has shown improvements in Compressive Strength, Drying Shrinkage and Abrasion Resistance.
- Significant retardation of efflorescence
- Applied to new and existing concrete substrates.
- Improved efficiencies and work scheduling achieved in relation to surface preparation and application of topically applied flooring and coating systems.
- On a new concrete substrates this can be as early as 14 days, whilst on existing substrates you only require to wait 24hrs prior to commencement of the topically applied systems.
- Environmentally Friendly & HACCP Certified - Low Odour – Low VOC
- Warranties of up to 15 years, supported by project specification and robust QC & QA procedures



OXTEK SOLUTIONS PTY LTD
3/174 ATLANTIC DRIVE
KEYSBOROUGH VIC 3173
TEL: 03 9798 7534
WWW.OXTEK.COM.AU



A collaborative approach to moisture - We're in this together

Article by Oxtex Solutions

Whether it's a recently placed concrete slab or an existing concrete subfloor, it's more than likely that moisture will pose a significant threat to the proposed resilient flooring installation at some stage during the floor's intended service life.

Therefore, it is deemed best practice to address this within the planning phase, or at very least prior to the commencement of the installation of the resilient flooring system, so that all project stakeholders are clearly made aware of the potential problems that are associated with moisture and take appropriate action to address the concerns raised.

Some of the reasons why high moisture content readings are recorded:

- Residual moisture has had insufficient time to leave the slab prior to commencement of the flooring system installation.
- Moisture penetrating through the concrete slab from another source (hydrostatic pressure).
- Damage to the plastic vapour membrane underneath the concrete slab.
- An older slab may have no plastic vapour membrane beneath the concrete slab.
- Leaking pipes in or below the concrete slab.

As we know moisture has a habit of finding the pathway of least resistance, with typical areas to look out for on an existing floor, and therefore issues to prevent with new flooring, include but not limited to are:



- Efflorescence on the substrate surface
- Degradation of the substrate on slab edges, slab edge dampness
- The presence of mould on the concrete surface or flooring
- Discolouring of the concrete
- For existing flooring – evidence of bubbling, staining, rippling, and swelling
- Adhesive failure
- Degradation of self-levelling and screed
- Swollen skirting board and bubbling/peeling paints on lower wall

By raising awareness of these issues as early as possible, it allows more time for moisture related problems to be addressed, well before flooring installation commences.

It is of upmost importance that the moisture barrier product manufacturer is fully aware of the situation and is comfortable that their product is fit for purpose. The manufacturer must clearly demonstrate that it is compatible with the other products related

to the flooring system installation, including resurfacing compounds and adhesives used for the installation process.

A project specific specification including guidelines for both surface preparation and application should be requested, supported by a project warranty, which may also dictate that the moisture barriers system installation requires to be applied by an approved or certified applicator.

Well-documented quality control records and quality assurance procedures should ensure that works are completed, in alignment with the project specification and provide clear traceability and accountability for future reference.

With the flooring system manufacturer, nominated contractor and client satisfied that the proposed systems being installed will allow for all warranties associated with the flooring installation to be issued on completion of the works, a stakeholder

mutual agreement can be reached and signed. This document confirms that all parties have a clear understanding as to what action is required prior to commencement of works. This ensures that the necessary mitigation strategies to eliminate the risk of moisture related flooring failure are documented, understood, and agreed.

Oxtek Solutions - 7 steps to prevent moisture related flooring failure

With over 24 years of experience in prevention strategies against moisture related flooring failures both here in Australia and New Zealand, Oxtek Solutions promotes early engagement with project stakeholders to discuss and make all parties aware of the risks and resultant issues to installed flooring systems, directly related to moisture within the concrete subfloor.

By taking a proactive approach to a project, working closely with specifiers/designers, flooring product and system manufacturers, contractors, and the client, allows for informed and appropriate decisions to be reached well in advance of works commencing.



1. **Project Specification** - Individually numbered and prepared specification including surface preparation and application requirements supported by the technical documentation tailored toward the requirement of the project.
2. **Contractor Training and Certification Program** – Approved applicators and certification training program to ensure compliance in the application of the Oxtek Solutions product range.
3. **Contractor Quality Control** – Well documented quality control procedures to be completed for each stage of application works, providing clear traceability and accountability.

4. Material Manufacturer Quality Assurance

– Robust internal audit process to review submitted quality control documentation, including scheduled and random site visits during application works to ensure works have been undertaken in alignment with our recommended guidelines and project specification.

5. Manufacturers' Compatibility Statement

– With our proven in-field performance, Oxtek Solutions has aligned with strategic product manufacturer partners within the flooring and coating industry, as their nominated system of choice for a penetrative moisture barrier system, with the provision of a manufacturers' compatibility statement. As per Clause 3.4.3.1 and Clause 3.5.3.1 of AS1884:2021.

6. Mutual Agreement

– Project Stakeholders reach a mutual agreement with a clear understanding of product performance characteristics and installation practices aligned with the specification, manufacturer compatibility statement and the subsequent warranty on offer. As per section 2.2 of AS 1884:2021.

7. Warranty

- Subject to review, project warranties of up to 15 years are available on new and existing concrete substrates.

Following the steps outlined above, will ensure a successful long-term outcome for installed flooring systems, and eliminate the risks associated with moisture.

To find out more about Oxtek Solution's 7 step approach to reducing the threat of moisture related flooring failures, or to arrange an appointment with one of our field representatives, please contact reception@oxtek.com.au or call 03 9798 7534.

🌐 www.oxtek.com.au ▲

