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| Title | Examine, evaluate and prepare substrate for the application of resin flooring systems | | |
| Level | 4 | Credits | 15 |

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| Purpose | <p>This unit standard is intended for those working in the resin flooring industry</p> <p>People credited with this standard are able to examine, evaluate and prepare substrate for the application of resin flooring systems to the level of performance required of a commercially competent tradesperson.</p> |
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| Classification | Construction Trades > Flooring |
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| Available grade | Achieved |
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Guidance Information

1 Assessment

This unit standard is intended to align with the *New Zealand Certificate in Resin flooring – Specifications* and the *New Zealand Certificate in Resin Flooring (Level 4)* [Ref: 4300].

Evidence for this standard must reflect commercial competence.

Commercial competence refers to the ability to demonstrate knowledge and skills in the context of the currently accepted requirements of a business operating in a commercial environment.

Commercial competence must be confirmed by a tradesperson with current expertise in the resin flooring application trade.

2 Definitions

Manufacturer's application guidelines include all the relevant information to apply a resin flooring system.

Substrate is the base material of the floor.

Substrate surface is the face of the substrate.

Workplace procedures refers to the documented procedures specific to a work site which set out the standard and required practices of that workplace.

3 Legislation, standards and guidance information relevant to this standard includes the following, and any subsequent amendments and replacements:

New Zealand Certificate in Resin flooring – Specifications, BCITO, September 2020, available from www.waihanga.nz.

Legislation accessed at www.legislation.govt.nz

- Building Act 2004
- Hazardous Substances and New Organisms Act 1996
- The New Zealand Building Code.

Standards accessed at www.standards.govt.nz

- NZS 3604:2011 *Timber Framed Buildings*.

Best practice and good practice guidelines

- *International Concrete Repair Institute (ICRI) 10 Concrete Surface Profiles*, available from <https://www.icri.org>
- *The Absolutely Essential Health and Safety Toolkit for Small Construction Sites*, and other Worksafe NZ publications available from www.worksafe.govt.nz.

Skill specification and performance level guidance

Skill specification

Examine, evaluate, and prepare substrate for the application of resin flooring systems.

Knowledge

The properties of substrates onto which resin flooring systems are applied.

Range concrete profiles in accordance with ICRI.

The physical and technical requirements of substrates onto which resin flooring systems are applied.

Range general condition of the surface, level of contamination, moisture content, level, fall, compressive strength, tensile strength, structural support, stability, control joints.

The cause of common issues associated with substrates and substrate surfaces.

Range unclean, contaminants, asbestos, required levels and falls of surface not met, unsound substrate, moisture in substrate, dust on substrate surface.

The methods to make minor maintenance and fixes to substrate surface types.

Range may include – cleaning, remedying minor height variations, light grinding.

The preparation requirements and methods associated with different substrate types.

Range mechanical keying surfaces to the recommended ICRI concrete surface profiles, cut and form in-floor requirements, reinforce required areas, fit accessories, seal, prime.

Skills

Examine the physical and technical requirements of new and existing substrates before applying resin flooring systems.

Range general condition of the surface, level of contamination, moisture content, level, fall, compressive strength, tensile strength, structural support, stability, control joints.

Remove existing floor coverings, coatings, and contaminants from substrates in readiness for additional preparatory tasks.

Prepare and remediate existing substrates before resin flooring system application.

Range may include – mechanically keying surfaces to the recommended ICRI concrete surface profiles, minor maintenance and fixes, priming ready for resin application, or organising a specialist to carry out repairs.

Evaluate substrate surfaces after preparatory and remediation tasks to confirm readiness for resin application.

Performance level guidance

Performance must reflect industry best practice, workplace procedures and manufacturer's application guidelines.

Substrate requirements must reflect the different grades of recommended International Concrete Repair Institute (ICRI) surface profiles.

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| Planned review date | 31 December 2026 |
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Status information and last date for assessment for superseded versions

| Process | Version | Date | Last Date for Assessment |
|--------------|---------|------------------|--------------------------|
| Registration | 1 | 25 November 2021 | N/A |

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| Consent and Moderation Requirements (CMR) reference | 0048 |
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact Waihangara Ara Rau Construction and Infrastructure Workforce Development Council at qualifications@waihanga.nz if you wish to suggest changes to the content of this unit standard.