

<b>Title</b>	<b>Apply liquid waterproofing coatings and membranes</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>5</b>

<b>Purpose</b>	<p>This specialist unit standard is for people working in the coatings area of the painting and decorating sector.</p> <p>People credited with this unit standard are able to: demonstrate knowledge of liquid applied waterproofing coatings and membranes; demonstrate knowledge of safety requirements when applying liquid waterproofing coatings and membranes; prepare surfaces for applying liquid waterproofing coatings and membranes; and apply liquid waterproofing coatings and membranes.</p>
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<b>Classification</b>	Construction Trades > Painting and Decorating
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<b>Available grade</b>	Achieved
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**Guidance Information**

- 1 Legislation and references relevant to this unit standard include – Health and Safety in Employment Act 1992; Resource Management Act 1991; Hazardous Substances and New Organisms Act 1996; available at <http://legislation.govt.nz>; AS/NZS 2311:2009 *Guide to the painting of buildings*, available at <http://www.standards.co.nz/>.
- 2 Definition  
*Worksite requirements* refer to job instructions to candidate on agreed work to be carried out.
- 3 This unit standard must be assessed against in a realistic workplace environment. The candidate must be under realistic time pressures, and use relevant commercial equipment and approved industry techniques.

**Outcomes and performance criteria**

**Outcome 1**

Demonstrate knowledge of liquid applied waterproofing coatings and membranes.

Range includes – interior, exterior.

**Performance criteria**

- 1.1 The different types of acrylic coatings and membranes are identified and their end-use explained.
- Range acrylics include – single component, double component (catalyst set), reinforced, unreinforced, water borne epoxy (triple component system).
- 1.2 The different types of urethane coatings and membranes are identified and their end-use explained.
- Range urethanes include – single component (moisture cured), catalysed, water catalysed, solvent catalyst.
- 1.3 The different types of flexible bituminous coatings are identified and their end-use explained.
- Range flexible bituminous coatings include – single component, double component, reinforced, unreinforced.
- 1.4 The different types of polyester coatings and membranes are identified and their end-use explained.
- Range polyesters include – inflexible, flexible.
- 1.5 The different types of liquid rubber coatings and membranes are identified and their end-use explained.
- Range liquid rubbers include – single component, double component.
- 1.6 The different types of epoxy coatings and membranes are identified and their end-use explained.
- Range epoxies include – water borne, solvent based, single pack, two pack.

**Outcome 2**

Demonstrate knowledge of safety requirements when applying liquid waterproofing coatings and membranes.

**Performance criteria**

- 2.1 Hazardous materials are explained in terms of the type of hazard.
- Range hazardous materials include – pigments, chemicals, solvents, thinners.

2.2 Methods for safely handling liquid applied waterproofing coatings and membranes are identified and described in accordance with legislative and worksite requirements.

Range evidence is required for a minimum of two different methods.

2.3 Methods for safely applying liquid waterproofing coatings and membranes are identified and described in accordance with legislative and worksite requirements.

Range evidence is required for a minimum of two different methods.

2.4 Procedures for safely storing liquid applied waterproofing coatings and membranes are identified and described in accordance with legislative and worksite requirements.

### **Outcome 3**

Prepare surfaces for applying liquid waterproofing coatings and membranes.

#### **Performance criteria**

3.1 Product is selected for the situation in which it is being used in accordance with manufacturer's recommendations and worksite requirements.

3.2 Type of substrate is identified in terms of surface preparation requirements.

Range substrates include – plaster (exterior), concrete, fibre cement sheeting, timber or composite materials, plaster board.

3.3 Surfaces are cleaned in accordance with worksite requirements.

3.4 Surfaces are prepared in accordance with worksite requirements.

Range preparation includes – etching (abrading), pre-watering, drying, filling, flushing, stopping.

3.5 Safe working practices appropriate to the task being undertaken are implemented in accordance with legislative and worksite requirements.

### **Outcome 4**

Apply liquid waterproofing coatings and membranes.

#### **Performance criteria**

4.1 The tools and equipment necessary to apply liquid waterproofing coatings and membranes are identified in accordance with manufacturer's recommendations and worksite requirements.

4.2 Methods of applying liquid waterproofing coatings and membranes are described in accordance with manufacturer’s recommendations and worksite requirements.

Range methods include – brush, roller, spray (high or low pressure), trowel or squeegee, broom, flooding.

4.3 Liquid waterproofing coatings and membranes are prepared in accordance with the manufacturer’s recommendations and worksite requirements.

4.4 Liquid waterproofing coatings and membranes are applied in accordance with the manufacturer’s recommendations and worksite requirements.

4.5 Any application and material faults are identified and rectified in accordance with worksite requirements.

4.6 Safe working practices appropriate to the task being undertaken are implemented in accordance with legislative and worksite requirements.

<b>Replacement information</b>	This unit standard replaced unit standard 1064.
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**This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.**

**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	18 August 2011	31 December 2016
Review	2	19 February 2015	31 December 2026
Review	3	24 April 2025	31 December 2028

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