Title	Apply liquid waterproofing coatings and membranes
Level	4	Credits	5

Purpose	This specialist unit standard is for people working in the coatings area of the painting and decorating sector.
	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.

Classification	Construction Trades > Painting and Decorating

Available grade	Achieved

Explanatory notes

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 evidence requirements

Outcome 1

Demonstrate knowledge of liquid applied waterproofing coatings and membranes.

Range   includes – interior, exterior.

Evidence requirements

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.

Evidence requirements

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.

Evidence requirements

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.

Evidence requirements

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.

Replacement information	This unit standard replaced unit standard 1064.

Planned review date	31 December 2019

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	N/A

Consent and Moderation Requirements (CMR) reference	0048

This CMR can be accessed at http://www.nzqa.govt.nz/framework/search/index.do.

Please note
Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMR). The CMR also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

Comments on this unit standard

Please contact the Building and Construction Industry Training Organisation
info@bcito.org.nz if you wish to suggest changes to the content of this unit standard.