

Title	Place and finish exposed aggregate concrete for concrete construction on site		
Level	3	Credits	8

Purpose	People credited with this unit standard are able to: demonstrate knowledge of conditions that affect placing and finishing of exposed aggregate concrete; place concrete for exposed aggregate concrete construction on site; expose aggregate finish to concrete on site; and complete work operations on site.
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Classification	Concrete > Concrete Construction
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Available grade	Achieved
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Guidance Information

- 1 Definitions
Specifications refers to documented instructions (oral, written, graphic) and may include any of the following: manufacturer's specifications, recommendations or technical data sheets; material specifications; specifications from a specialist source such as an architect, designer, engineer or a supervisor; site or work specific requirements.
Workplace practice refers to the documented procedures specific to a workplace which set out the standard and required practices of that workplace.
- 2 Credit for this unit standard indicates compliance with industry practice. *Industry practice* refers to the ability to demonstrate knowledge and skills that reflect the productivity, uniformity, finish quality and material economies currently accepted within industry.
- 3 Assessment against this unit standard must be undertaken on site. *On site* refers to a wide range of building and construction environments within which trade skills are required, and includes concrete production and concrete construction sites.
- 4 Legislation and publications relevant to this unit standard include: Health and Safety in Employment Act 1992 and Health and Safety in Employment Regulations 1995; Resource Management Act 1991; NZS 3109:1997 *Concrete construction* and NZS 3114:1987 *Specification for concrete surface finishes*, available from Standards New Zealand (<http://www.standards.co.nz>).
- 5 Recommended: Unit 26048, *Place and finish concrete for concrete construction on site*, or demonstrate equivalent knowledge and skills.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of conditions that affect placing and finishing of exposed aggregate concrete.

Performance criteria

- 1.1 The effects of ambient weather and site conditions on exposed aggregate concrete are identified and described in terms of actions required to mitigate them.

Range heat, wind, cold, wet, sub-base conditions.

- 1.2 The effects of additives and admixtures on exposed aggregate concrete in a plastic state are identified and described with consideration for their impact on bleeding, timing and any seasonal effects on the concrete.

Range blended cements, admixtures, additives.

Outcome 2

Place concrete for exposed aggregate concrete construction on site.

Performance criteria

- 2.1 Concrete is placed in accordance with job specifications.

Range factors to be checked – mix design, segregation, layers, free forming, screeding, concrete strength, slump, continuity of supply, placement of shrinkage control joints, weather conditions.

Outcome 3

Produce an exposed aggregate finish to concrete on site.

Performance criteria

- 3.1 Wet concrete surfaces are finished in accordance with NZS 3109, NZS 3114, and job specifications.

Range trowelled to soft and/or smooth finish.

- 3.2 Any required seeding of aggregate to concrete surface is performed in accordance with job specifications.

- 3.3 Surface retarders are sprayed onto finished concrete surfaces for the required time period in accordance with manufacturer's recommendations.

- 3.4 Surfaces are washed and broomed off to remove topping according to weather conditions, exposure to sunlight and manufacturer's recommendations.
- 3.5 Surfaces are acid washed in accordance with manufacturer's specifications.
- 3.6 Surfaces are sealed in accordance with manufacturer's specifications.

Outcome 4

Complete work operations on site.

Performance criteria

- 4.1 All operations are safely completed; workplace and equipment are cleaned in accordance with workplace practice and environmental safety requirements, and routine maintenance is carried out in accordance with workplace practice.

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	30 July 2001	31 December 2024
Revision	2	16 July 2004	31 December 2024
Rollover and Revision	3	25 January 2008	31 December 2024
Review	4	16 April 2010	31 December 2024
Review	5	24 November 2022	31 December 2024

Consent and Moderation Requirements (CMR) reference

0048

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