



Australian Government

MSFFL3100 Apply densifiers and sealers to concrete surfaces

Release: 1

MSFFL3100 Apply densifiers and sealers to concrete surfaces

Modification History

Release 1. Supersedes and is equivalent to MSFFL3049 Apply densifiers and sealers to concrete surfaces.

Application

This unit describes the skills and knowledge required to inspect and prepare concrete surfaces for polishing using densifying and sealing materials.

This unit applies to flooring technicians working in accordance with pre-determined work orders.

Licensing, legislative or certification requirements may apply to this unit and relevant state/territory and local government agencies should be consulted to determine any necessary certification or licensing for undertaking flooring work. Industry standards and codes of practice within Australia must also be applied. Access to construction sites requires certification of general induction training specified by the National Code of Practice for Induction for Construction Work (ASCC 2007).

Pre-requisite Unit

Competency Field

Flooring technology

Unit Sector

Flooring technology

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare for work	1.1 Read work documentation and identify job requirements and process 1.2 Identify and follow work health and safety, legislative and organisational requirements 1.3 Select materials based on job requirements, surface compatibility, manufacturer recommendations and client expectations 1.4 Select and check application tools, equipment and materials prior

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	to use for suitability, serviceability and safety 1.5 Inspect and confirm readiness of surface to be finished, and erect barrier signs to area 1.6 Measure area and accurately calculate material requirements 1.7 Plan work sequence to ensure efficiency and quality of application
2. Apply densifying or sealing system	2.1 Check ventilation before chemical fumes are released, and confirm all work health and safety and environmental protection requirements are met 2.2 Wet surface and apply materials in accordance with manufacturer recommendations 2.3 Observe recommended drying times between coats 2.4 Check applied material when dry against quality and job requirements and rectify deficiencies
3. Complete housekeeping	3.1 Store or recycle unused materials in accordance with workplace procedures 3.2 Check, clean and store tools and equipment in accordance with workplace procedures 3.3 Clean work area and remove waste and dispose of safely 3.4 Remove and store barriers and signs in accordance with workplace procedures 3.5 Accurately complete required workplace documentation

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

Supersedes and is equivalent to MSFFL3049 Apply densifiers and sealers to concrete surfaces

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0601ab95-583a-4e93-b2d4-cfb27b03ed73>

Assessment Requirements for MSFFL3100 Apply densifiers and sealers to concrete surfaces

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Performance Evidence

There must be evidence the candidate has completed the tasks outlined in the elements and performance criteria of this unit, and:

- applied densifying, sealing and grouting products to achieve the required finish in accordance with job requirements to both 1 new and 1 existing concrete surface.
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Knowledge Evidence

There must be evidence the candidate has knowledge of

- mathematical procedures for estimation and measurement, including calculation of area and estimation of material requirements
- densifying and sealing of concrete:
 - Australian Standards requirements
 - workplace safety systems
 - environmental protection and sustainability requirements
 - work flow
 - types, characteristics, safe use, maintenance and limitations of preparation and application tools and equipment
 - methods of concrete floor preparation and requirements prior to application in relation to:
 - contaminants
 - debris
 - dust
 - moisture content level and stability
 - characteristics of densifier and sealer products in relation to ventilation and reaction to change of temperature and relative humidity
 - type, characteristics, uses and limitation of materials, including manufacturer recommendations for:
 - reactive concrete densifiers using colloidal silica to harden and densify new or older concrete surfaces
 - densifiers and sealers to protect concrete from stains, dust production and wear, and supports polishing

- application methods and techniques, the types of problems that may occur and how to avoid and respond, including for:
 - pour and brush spreading
 - low-pressure, airless spraying
- quality indicators for finished surfaces
- procedures and protocols for the recording, reporting and maintenance of workplace records and information.
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Assessment Conditions

Skills must have been demonstrated in the workplace or in a simulated environment that reflects workplace conditions and contingencies. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
 - concrete surfaces to be finished
 - equipment, tools and materials for application of products
 - work orders
 - workplace procedures.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

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