



Australian Government

MSFFL2009 Select, prepare and apply moisture barriers and damp proof membranes to concrete sub-floors

Release: 1

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Modification History

Release 1 - New unit of competency

Application

This unit of competency covers preparing concrete sub-floors and applying moisture barriers and damp proof membranes in readiness for the installation of floor coverings and coatings.

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. 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

Unit Sector

Flooring technology

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

1	Prepare for work	1.1	Applicable work health and safety (WHS), legislative and organisational requirements relevant to moisture barriers and damp proof membranes are verified and complied with
		1.2	Instructions and/or plans are read and interpreted to identify the process required to complete work tasks
		1.3	Sub-floors are inspected in accordance with Australian Standards and treatment system identified
		1.4	Tools, equipment and materials are selected and checked prior to use to ensure that they are appropriate for the work, serviceable and in a safe condition

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| | | 1.5 | Material safety data sheets (MSDS), or equivalent, are read and applied during work |
| | | 1.6 | Materials and equipment are prepared and positioned for use |
| | | 1.7 | Surfaces are cleaned in accordance with manufacturer recommendations |
| 2 | Apply moisture suppressant | 2.1 | Surface coating is applied with the depth and coverage in accordance with manufacturer specifications and job requirements |
| | | 2.2 | Sub-floor is checked and cleared for further processing |
| 3 | Apply moisture barrier | 3.1 | Moisture is established as hydrostatic pressure, capillary moisture, or new concrete with high moisture content |
| | | 3.2 | Moisture content is established as reducing, construction moisture or a result of damaged membrane or capillary action |
| | | 3.3 | All corners, cracks and other penetrations are strengthened |
| | | 3.4 | barrier material is laid in accordance with manufacturer instructions |
| | | 3.5 | Second coating is applied as required |
| | | 3.6 | Sub-floor is checked and cleared for further processing |
| 4 | Complete housekeeping | 4.1 | Unused materials are stored or recycled as required |
| | | 4.2 | Remains of compounds used are cleaned up and disposed of appropriately |
| | | 4.3 | Tools and equipment are cleaned and stored appropriately |
| | | 4.4 | Work area is cleaned and rubbish disposed of appropriately |
| | | 4.5 | Workplace documentation is completed |

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency. Detail on appropriate performance levels for each furnishing unit of competency in reading, writing, oral communication and numeracy utilising the Australian Core Skills Framework (ACSF) are provided in the Furnishing Training Package Implementation Guide.

Range of Conditions

Specifies different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included. Range is restricted to essential operating conditions and any other variables essential to the work environment.

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| Unit context includes: | <ul style="list-style-type: none">• WHS requirements, including legislation, building codes, material safety management systems, hazardous and dangerous goods codes, and local safe operating procedures or equivalent• work is carried out in accordance with legislative obligations, environmental legislation, relevant health regulations, manual handling procedures and organisation insurance requirements• work requires individual to demonstrate some discretion, judgement and problem solving |
| Treatment systems include: | <ul style="list-style-type: none">• construction moisture suppressant system or a moisture barrier:• designed for new concrete with low moisture content or capillary moisture• designed for concrete with hydrostatic pressure, capillary moisture or new concrete with a high moisture content |
| Australian Standards include: | <ul style="list-style-type: none">• AS/NZS 2455.1:2007 Textile floor coverings - Installation practice - General• AS 1884-2012 Floor coverings - Resilient sheet and tiles - Installation practices |
| Personal protective equipment includes: | <ul style="list-style-type: none">• that prescribed under legislation, regulations and enterprise policies and practices |
| Information and procedures include: | <ul style="list-style-type: none">• workplace procedures relating to the use of tools and equipment• work instructions, including job sheets, plans, drawings and designs• workplace procedures relating to reporting and communication• manufacturer specifications and operational procedures |

Unit Mapping Information

Supersedes and is equivalent to LMFFL2105A Select, prepare and apply moisture barriers and damp proof membranes to concrete sub-floors

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 MSFFL2009 Select, prepare and apply moisture barriers and damp proof membranes to concrete sub-floors

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Performance Evidence

- Interpret work order and locate and apply relevant information
- Apply safe handling requirements for equipment, products and materials, including use of personal protective equipment
- Identify materials used in the work process
- Follow work instructions, operating procedures and inspection processes to:
 - minimise the risk of injury to self or others
 - prevent damage to goods, equipment and products
 - maintain required production output and product quality
- Complete two (2) moisture suppressant/barrier installations:
 - one (1) moisture barrier (dealing with an external moisture problem that may be due to hydrostatic pressure or capillary action)
 - one (1) moisture suppressant (dealing with construction moisture in green concrete)
- Use mathematical ideas and techniques to correctly complete measurements, calculate area and estimate material requirements
- Communicate ideas and information to enable confirmation of work requirements and specifications and the reporting of work outcomes and problems, interpret basic plans and follow safety procedures
- Avoid backtracking, work flow interruptions or wastage
- Work with others and in a team by recognising dependencies and using cooperative approaches to optimise work flow and productivity

Knowledge Evidence

- State or territory WHS legislation, regulations, standards and codes of practice relevant to moisture suppressants and barrier systems
- Organisational and site standards, requirements, policies and procedures for moisture suppressant and barrier systems
- Environmental protection requirements
- Established communication channels and protocols
- Relevant problem identification and resolution
- Types of tools and equipment and procedures for their safe use, operation and maintenance
- Characteristics of materials, products and defects

- Types, application and features of moisture barriers and moisture suppressant techniques
- Set-up and operation of equipment
- Procedures for the recording, reporting and maintenance of workplace records and information
- Appropriate mathematical procedures for estimation and measurement

Assessment Conditions

- Assessors must:
 - hold training and assessment competencies as determined by the National Skills Standards Council (NSSC) or its successors
 - have vocational competency in the furnishing industry at least to the level being assessed with broad industry knowledge and experience, usually combined with a relevant industry qualification
 - be familiar with the current skills and knowledge used and have relevant, current experience in the furnishing industry.
- Assessment methods must confirm consistency of performance over time rather than a single assessment event and in a range of workplace relevant contexts.
- Assessment must be by observation of relevant tasks with questioning on underpinning knowledge and, where applicable, multimedia evidence, supervisor's reports, projects and work samples.
- Assessment is to be conducted on single units of competency or in conjunction with other related units of competency. Foundation skills are integral to competent performance in the unit and should not be assessed separately.
- Assessment must occur on the job or in a workplace simulated facility with relevant process, equipment, materials, work instructions and deadlines.
- Access is required to materials and equipment relevant to moisture suppressant/barrier activities and their specifications.

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