



Australian Government

Department of Education, Employment and Workplace Relations

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

Release: 1

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

Modification History

Not applicable.

Unit Descriptor

Unit descriptor	This unit covers the competency to prepare concrete sub-floors to apply moisture barriers and damp proof membranes in readiness for the installation of floor coverings and coatings.
------------------------	---

Application of the Unit

Application of the unit	This unit supports the attainment of skills and knowledge required for competent workplace performance in the wide variety of flooring technology operations. The competency applies to an on site environment and involves application of skills and knowledge at a sub-trade worker level. These skills and knowledge are to be used within the scope of the individual's job and authority.
--------------------------------	--

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisite units	Nil	

Employability Skills Information

Employability skills	This unit contains employability skills.
-----------------------------	--

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.
---	--

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Prepare for work	1.1. Applicable legislative, OHS 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 ASNZS 2455.1 (1995) and AS 1884 (1995) and the treatment system is 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 1.5. Material safety data sheets, 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. Establish whether the moisture is hydrostatic pressure, capillary moisture, or new concrete with high moisture content 3.2. Establish whether moisture content is reducing, is construction moisture or is result of damaged membrane or capillary action 3.3. Strengthen all corners, cracks and other penetrations 3.4. Layer barrier material in accordance with manufacturer instructions 3.5. Apply second coating as required 3.6. Sub-floor is checked and cleared for further processing

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit.

Required skills

- collect, organise and understand information related to work orders, basic plans and safety procedures
- communicate ideas and information to enable confirmation of work requirements and specifications, coordination of work with site supervisor, other workers and customers, and the reporting of work outcomes and problems
- work with others and in a team by recognising dependencies and using cooperative approaches to optimise work flow and productivity
- use pre-checking and inspection techniques to anticipate concrete sub-floor preparation problems, avoid re-working and wastage
- recognise and respond to circumstances outside instructions or personal competence
- plan and organise activities, including the preparation and layout of the worksite and the obtaining of equipment and materials to avoid any back tracking, work flow interruptions or wastage
- use mathematical ideas and techniques to correctly complete measurements, calculate area and estimate other material requirements
- clarify and confirm work instructions
- plan work within given task parameters
- accept responsibility for given tasks
- set, monitor and satisfy personal work goals
- satisfy the competency requirements for the job
- maintain current knowledge of:
 - tools and materials
 - installation techniques
- seek learning opportunities
- use the limited workplace technology related to the selection, preparation and application of moisture barriers and damp proof membranes to concrete sub-floors including tools, equipment, calculators and measuring devices.

Required knowledge

- State or Territory OHS 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
- problem identification and resolution

REQUIRED SKILLS AND KNOWLEDGE
• types of tools and equipment and procedures for their safe use, operation and maintenance • characteristics of materials, products and defects • 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

Evidence Guide

EVIDENCE GUIDE

The Evidence Guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Critical aspects for assessment and evidence required to demonstrate competency in this unit

- Comply with legislation, regulations, standards, codes of practice and establish safe practices and procedures for preparing and applying moisture barriers
- Apply safe handling requirements for equipment, products and materials, including use of personal protective equipment
- Follow work instructions, operating procedures and inspection practices to:
 - prevent damage to goods, equipment and products
 - maintain required production output and product quality
 - minimise the risk of injury to self and others
- Complete a minimum of two moisture suppressant/barrier preparations which are to include:
 - a hydrostatic and a capillary moisture problem to Australian standards
 - modify activities to cater for variations in workplace context and environment
- Work effectively with others
- Modify activities to cater for variations in workplace contexts and environment

Context of, and specific resources for assessment

- The application of competency is to be assessed in the workplace or realistically simulated workplace
- Assessment is to occur under standard and authorised work practices, safety requirements and environmental constraints
- Assessment of essential underpinning knowledge, other than confirmatory questions, will usually be conducted in an off-site context
- Assessment is to comply with relevant regulatory or Australian Standards requirements
- The following resources should be made available:
 - workplace location or simulated workplace
 - materials and equipment relevant to moisture suppressant/barrier activities
 - specifications and work instructions

EVIDENCE GUIDE

Method of assessment

Assessment must satisfy the endorsed assessment guidelines of the Furnishing Industry Training Package

Assessment methods must confirm consistency and accuracy of performance (over time and in a range of workplace relevant contexts) together with application of underpinning knowledge

Assessment methods must be by direct observation of tasks and include questioning on underpinning knowledge to ensure its correct interpretation and application

Assessment may be applied under project related conditions (real or simulated) and require evidence of process

Assessment must confirm a reasonable inference that competency is able not only to be satisfied under the particular circumstance, but is able to be transferred to other circumstances

Assessment may be in conjunction with assessment of other units of competency

Range Statement

RANGE STATEMENT

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

OHS requirements

- are to be in accordance with Commonwealth, State or Territory legislation and regulations, organisational safety policies and procedures. Requirements may include but not be limited to the use of personal protective equipment and clothing, fire fighting equipment, First Aid equipment, hazard and risk control and elimination of hazardous materials and substances, manual handling including lifting and carrying

Legislative requirements

- are to be in accordance with applicable legislation from all levels of government that affect organisational operation. Requirements may include but not be limited to award and enterprise agreements, industrial relations, Australian Standards, confidentiality and privacy, OHS, the environment, equal opportunity, anti-discrimination, relevant industry codes of practice, duty of care and heritage

Organisational requirements

- may include but not be limited to legal, organisational and site guidelines, policies and procedures relating to own role and responsibility, quality assurance, procedural manuals, quality and continuous improvement processes and standards, OHS, emergency and evacuation, ethical standards, recording and reporting, access and equity principles and practices, equipment use, maintenance and storage, environmental management (waste disposal, recycling and re-use guidelines)

Instructions

- Workplace procedures relating to the use and operation of tools and equipment
- Workplace instructions, including job sheets, plans, drawings and designs
- Workplace procedures relating to reporting

RANGE STATEMENT	
	and communication • Manufacturer instructions for the use of equipment and materials
Treatment system	• may be one of two moisture treatments, a Construction Moisture Suppressant System or a Moisture Barrier. The Moisture Suppressant System is designed for new concrete with low moisture content or capillary moisture. The Moisture Barrier is designed for concrete with hydrostatic pressure, capillary moisture or new concrete with a high moisture content

Unit Sector(s)

Unit sector	Flooring Technology
--------------------	---------------------

Competency field

Competency field	Floor Preparation
-------------------------	-------------------

Co-requisite units

Co-requisite units		