



Australian Government

MSFFL2007 Select and apply appropriate compounds and additives

Release: 1

MSFFL2007 Select and apply appropriate compounds and additives

Modification History

Release 1 - New unit of competency

Application

This unit of competency covers selecting and applying appropriate compounds and additives to sub-floors in preparation for the installation of floor coverings.

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	Identify the sub-floor properties	1.1	Applicable work health and safety (WHS), legislative and organisational requirements relevant to the use of appropriate compounds and additives 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	Appropriate personal protective equipment is selected, correctly fitted and used
		1.4	The type of floor and wall construction and the building floor and wall structure and sub-structure are identified
		1.5	Datum lines are run and checked to confirm dimensions

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| | | 1.6 | Timber and/or concrete flooring inspections are completed to identify irregularities |
| | | 1.7 | Wall inspections are completed to identify irregularities |
| 2 | Select appropriate compounds and additives | 2.1 | Types of floor and wall preparation compounds and additives and their functions are identified from relevant information sources |
| | | 2.2 | Sub-floors and walls are checked for contamination, moisture content, plane, smooth and suitable preparation |
| | | 2.3 | Suitable compounds and additives are selected consistent with the needs of the job |
| 3 | Prepare compounds and additives | 3.1 | 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 |
| | | 3.2 | Selected compounds and additives for application are organised and prepared in accordance with relevant safety management requirements |
| | | 3.3 | The method of application is selected |
| | | 3.4 | Sequence of work is planned to ensure the application of appropriate compounds and additives is in logical order |
| 4 | Apply compounds and additives | 4.1 | Working lines are established and starting point is selected |
| | | 4.2 | Mixing station is established and selected compounds and additives are mixed to manufacturer instructions |
| | | 4.3 | Selected compounds and additives are applied to the sub-floor surface following manufacturer instructions |
| | | 4.4 | Sub-floors are inspected and re-worked as required |
| 5 | Complete housekeeping | 5.1 | Tools and equipment are cleaned and stored appropriately |
| | | 5.2 | Work area is cleaned and rubbish disposed of appropriately |
| | | 5.3 | 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 |
| Appropriate compounds and additives include: | <ul style="list-style-type: none">• preparation primers• self-smoothing/levelling cements• pumpable cement base floor leveller• two part, chemically cured epoxy coating for porous concrete floors• rapid setting and drying repair mortar• latex powder and emulsion based sub-floor smoothing compounds• synthetic resin dispersion• high polymer cement-based finishes |
| Tools and equipment include: | <ul style="list-style-type: none">• utility knife• straight edge• square• tape measure• spirit level• screed bar• gauging tool• finishing trowel• corner trowel |

	• spatula • rollers • brushes • measuring buckets • batching buckets • mixing drill • mixing paddle • trolley
Materials include:	• sanding paper • grinding discs • carborundum brick • smoothing and repairing compounds • primers
Personal protective equipment includes:	• that prescribed under legislation, regulations and enterprise policies and practices
Information and procedures include:	• workplace procedures relating to the use of tools and equipment • work instructions, including job sheets, cutting lists, plans, drawings and designs • workplace procedures relating to reporting and communication • manufacturer specifications and operational procedures

Unit Mapping Information

Supersedes and is equivalent to LMFFL2103A Select and apply appropriate compounds and additives

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 MSFFL2007 Select and apply appropriate compounds and additives

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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 a minimum of three (3) applications where appropriate compounds and additives are selected, prepared and applied to substrates in preparation for finish coverings
- Modify activities to cater for variations in workplace context and environment
- 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 appropriate compounds and additives
- Organisation and site standards, requirements, policies and procedures for applying appropriate compounds and additives
- Characteristics and requirements of concrete and timber sub-floor preparation
- Characteristics and requirements of concrete and fibre board wall preparation
- Types, characteristics, uses and limitations of compounds and additives
- Types of tools and equipment and procedures for their safe use, operation and maintenance
- Set-up and operation of equipment
- Workplace safety system requirements related to the application of appropriate compounds and additives

- Appropriate mathematical procedures for estimation and measurement
- Relevant problem identification and resolution techniques
- Environmental protection requirements
- Established communication channels and protocols
- Procedures for the recording, reporting and maintenance of workplace records and information

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 the application of compounds and additives.

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