



Australian Government

MSFFL3077 Prepare subfloors for resin flooring systems

Release: 1

MSFFL3077 Prepare subfloors for resin flooring systems

Modification History

Release 1. New unit.

Application

This unit describes the skills and knowledge required to prepare and repair subfloors in preparation for the installation of resin flooring systems. It includes patching, floor levelling, in-fills, dynamic cracks, joints, coving and priming to strengthen weak slabs.

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. Access to construction sites requires certification of general induction training specified by the National Code for Induction for Construction Work (ASCC 2007).

Pre-requisite Unit

N/A

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 the work	1.1 Identify and follow work health and safety, legislative, and organisational requirements 1.2 Correctly interpret work orders and confirm job requirements 1.3 Select and check tools and equipment for suitability, serviceability and safety prior to use 1.4 Plan application with respect to order of repairs, material consumption, height of coves boundaries, joints and exit points
2. Prepare subfloors	2.1 Inspect condition of the substrate and confirm suitability for required repair consistent with supplier recommendations

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	2.2 Select and safely use equipment and machinery for required cutting and removal 2.3 Remove dust and debris from the substrate prior to application, and control sources
3. Set out work area	3.1 Establish mixing area in suitable area and select surface protection measures and apply to areas not being coated 3.2 Check materials for correct quantities, undamaged packaging and no obvious discrepancies in colour and viscosity 3.3 Select suitable masking tape and correctly apply to mark off edges, transitions and other floor boundaries
4. Prepare subfloor repair system	4.1 Correctly fit personal protection equipment (PPE) before coating materials are handled 4.2 Accurately measure and mix component quantities in accordance with supplier instructions.
5. Apply subfloor repair system	5.1 Apply mixed priming and repair materials in accordance with supplier application notes 5.2 Manipulate, measure and cut materials using appropriate tools and in accordance with project requirements 5.3 Check repair applications for quality at each stage and rectify any deficiencies
6. Complete housekeeping	6.1 Check, clean and store tools and equipment in accordance with workplace procedures 6.2 Seal and store unused materials in accordance with supplier instructions 6.3 Clean work area and dispose of rubbish safely 6.4 Accurately complete required workplace and project documentation

Foundation Skills

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

Unit Mapping Information

No equivalent unit.

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 MSFFL3077 Prepare subfloors for resin flooring systems

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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:

- completed the following:
 - 2 patch repairs – patch chipped concrete and static crack repairs to feather edge
 - 2 floor levelling repairs – ramp at door transition and falls to drain
 - 2 in-fills – rebuild expansion joint and install a floor waste
 - 2 crack repairs – chase out, overfill, grind back and infill, sawcut and caulk sealant
 - 2 coves – install arrowhead coving system and smooth edge cove
 - 1 primer to strengthen weak or porous substrate.
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Knowledge Evidence

There must be evidence the candidate has knowledge of:

- key aspects of state or territory legislation, regulations, standards and codes of practice, including individual technician rights and obligations relating to:
 - workplace health and safety
 - consumer law
 - environmental protection and sustainable use of materials
- how to access supplier instructions
- mathematical procedures for estimation and measurement, including calculation of area, volumes and use of ratios for mixing
- types, uses and limitations of tools and equipment used in substrate repair
- characteristics and requirements of suitable subfloor preparation, including different methods and products used to profile, repair, prime and clean
- the features and layout of an effective mixing area
- taping techniques to protect surfaces that aren't to be coated, including walls, edges, transitions and boundaries on the floor
- personal protective equipment (PPE) and correct usage
- techniques for the following, the types of problems that may occur and how to avoid and respond:
 - measuring out and mixing substrate repair systems, including pigment, fillers and/or aggregate and stir-in additives

- applying floor levelers, including brushing, rolling, raking and troweling
- identifying when and how to apply a suitable resin primer to strengthen up a weak or porous substrate
- applying in-fills, including brushing, trowelling and finishing
- applying dynamic crack repair systems, including concrete cutting, trowelling and caulking
- applying joint repair systems, including concrete cutting, jackhammering, trowelling and caulking
- applying coving, including brushing, trowelling, coving and finishing
- quality indicators for repaired substrate
- cleaning and storage procedures for PPE, tools, equipment and unused materials
- disposal procedures for waste materials
- requirements and protocols for recording, reporting and maintaining 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:
 - subfloors requiring repairs as outlined in the Performance Evidence
 - work orders
 - tools and equipment to complete tasks in the Performance Evidence, including safety and personal protective equipment
 - workplace procedures.

The assessor must directly observe each type of repair being made on at least one occasion. Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

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