



Australian Government

FWPWPP3209 Prepare resin and additives

Release: 2

FWPWPP3209 Prepare resin and additives

Modification History

Release	Comments
Release 2	This version released with FWP Forest and Wood Products Training Package Version 4.0.
Release 1	This version replaces equivalent unit FPIWPP3209B Prepare resin and additives, which was first released with FPI11 Forest and Forest Products Training Package Version 2.2. This is the first release of this unit in the new standards format.

Application

This unit of competency describes the skills and knowledge required to mix glue, resin and additives for use in the production of engineered wood products.

The unit applies individuals who work as production operators and technicians in an engineered wood products facility. Operators generally work under broad or limited direction to complete routine activities related to their own work, and take responsibility for their work.

All work must be carried out to comply with workplace procedures, according to state/territory health and safety regulations, legislation and standards that apply to the workplace.

No licensing, legislative, regulatory or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Wood Panel Products

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>

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 mixing resin and additives	1.1 Review work order, workplace health and safety requirements, environmental protection practices and emergency procedures for mixing resin and additives and, where required, check with appropriate personnel 1.2 Identify and report hazards and use personal protective equipment according to workplace requirements and health and safety legislation to maintain safe work practices 1.3 Obtain the type and quantity of glue or resin to be mixed from a storage location 1.4 Select the mixing process and plan according to work order
2. Mix glue	2.1 Use equipment according to workplace health and safety procedures, manufacturer instructions and environmental protection practices 2.2 Measure and mix glue or resin ingredients and additives to ensure minimum wastage 2.3 Transfer mix to appropriate storage location or production equipment through transfer lines without contaminating 2.4 Monitor rate that glue or resins and additives are being added, and where required adjust pumps 2.5 Test mix samples regularly according to manufacturer instructions
3. Maintain and clean equipment	3.1 Clean mixing, storage and transfer equipment according to workplace health and safety procedures 3.2 Turn off pumps and flush equipment according to workplace health and safety procedures and manufacturer recommendations 3.3 Dispose of excess glue or resin and additives in line with environmental protection practices, and store equipment 3.4 Record and report production outcomes and equipment faults to appropriate personnel

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.

Skill	Description
Numeracy	- Calculate the quantity of glue or resin to meet work order production requirements - Calculate routine mixing ratios for glue or resin and additives - Interpret numerical data from test samples
Reading	Interpret safety data sheets for glue, resins and additives
Navigate the world of work	Understand main tasks, responsibilities and boundaries of own role
Interact with others	Use modes of communication suitable for the purpose to confirm and clarify understanding
Get the work done	Recognise and respond to routine problems by reporting or rectifying

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPWPP3209 Prepare resin and additives Release 2	FWPWPP3209 Prepare resin and additives Release 1	Updated industry terminology, workplace health and safety requirements and foundation skills; clarified the intent of the unit and assessment requirements.	Equivalent unit

Links

Companion Volumes, including Implementation Guides, are available at VETNet: - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>

Assessment Requirements for FWPWPP3209 Prepare resin and additives

Modification History

Release	Comments
Release 2	This version released with FWP Forest and Wood Products Training Package Version 4.0.
Release 1	This version replaces equivalent unit FPIWPP3209B Prepare resin and additives, which was first released with FPI11 Forest and Forest Products Training Package Version 2.2. This is the first release of this unit in the new standards format.

Performance Evidence

An individual demonstrating competency in this unit must satisfy all of the elements and performance criteria of this unit. There must be evidence that, on at least one occasion, the individual has:

- followed workplace health and safety requirements and environmental protection procedures for mixing resins and additives used in the production of engineered wood products
- mixed one or more of the following types of glues and resins according to an individual work order prescribing different quantities:
 - synthetic or animal-based adhesives
 - rubber-based adhesives
 - polyvinyl acetate
 - epoxy resins
 - formaldehydes
- taken samples and tested mix for:
 - mix quantities
 - setting speed
 - how weather conditions may be affecting the process.

Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- health and safety hazards or risks related to mixing resins and additives for the production of engineered wood products, as identified through risk assessments, manufacturer technical information, regulations and industry health and safety guides
- workplace procedures specific to mixing glue, resin and additives:
 - health and safety, with particular emphasis on equipment lockout, emergency procedures, use of personal protective equipment (PPE) and handling hazardous substances according to safety data sheets
 - use of equipment for mixing resins and additives
 - communication reporting lines
 - recording and reporting production outcomes and equipment faults
- environmental protection practices for preparing resins and additives:
 - reducing water and energy use
 - cleaning plant, tools and equipment
 - disposing of hazardous substances
- storage layout and categories for:
 - raw materials
 - finished mixes
- typical flow of material supply in and out of the mixing area
- typical workflow processes for mixing glue, resins and additives
- properties, at a basic level of understanding, of glue and resin types and their uses:
 - synthetic or animal-based adhesives
 - rubber-based adhesives
 - polyvinyl acetate
 - epoxy resins
 - formaldehydes
- properties, at a basic level of understanding, of additive types and their uses
- effects of weather conditions on bonding times
- methods used to:
 - mix glues, resins and additives
 - test samples of mix
 - safely store glues, resins and additives
- purpose, features, operation and basic non-specialist maintenance of mixing systems used to mix glue, resin and additives:
 - mixers with manually controlled feed
 - mixers with pre-programmed mix quantities.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:

- skills must be demonstrated in an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - mixing system with transfer pumps
 - PPE suitable for mixing glue, resin and additives
 - glue, resin and additives used in the production of engineered wood products
- specifications:
 - recipes for mixing glues, resin and additives
 - manufacturer safety data sheets for glues, resins and additives, instructions for equipment use and recommendations for maintaining equipment
 - work order with specific instructions for mixing glue, resins and additives
 - template documents for recording production outcomes and equipment faults
 - workplace procedures for mixing glue, resin and additives, including health and safety and emergency procedures and environmental protection procedures.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volumes, including Implementation Guides, are available at VETNet: - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>