



Australian Government

PMBPROD249 Apply liquid surface coatings

Release: 1

PMBPROD249 Apply liquid surface coatings

Modification History

Release 1. Supersedes and is equivalent to PMBPROD249B Apply liquid surface coatings

Application

This unit of competency covers the skills and knowledge required to apply liquid surface coatings to products by hand, spray gun or immersion.

This unit of competency applies to operators who are required to select and prepare materials and equipment, apply surface coatings, check conformity to specifications and recognise routine and non-routine problems and take appropriate action.

This unit of competency applies to an individual working alone or as part of a team or group and working in liaison with other shift team members, team leader and supervisor, as appropriate.

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

Pre-requisite Unit

Nil

Competency Field

Production

Unit Sector

Not applicable

Elements and Performance Criteria

Elements describe the essential outcomes.

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

- | | | | |
|---|--------------------------------|-----|---|
| 1 | Check work requirements | 1.1 | Identify work requirements from production plan or request |
| | | 1.2 | Select and check appropriate equipment or tool/s, techniques and materials to be used |

- 1.3 Recognise requirements which may not be in accordance with usual practice
 - 1.4 Ask questions of appropriate person to confirm non standard job specifications
 - 1.5 Ensure housekeeping is to requirements
 - 1.6 Identify hazards associated with the job and take appropriate action
 - 1.7 Perform other pre-operational checks in accordance with procedures
- 2 **Start up surface coating equipment to procedures**
- 2.1 Conduct pre-start check on equipment
 - 2.2 Start coating equipment to procedures
- 3 **Apply surface coating**
- 3.1 Check process is operating within required limits
 - 3.2 Check coating is in specification and to required quality standard
 - 3.3 Maintain supply of materials as required
 - 3.4 Collect and segregate scrap, waste and other materials as required
 - 3.5 Complete logs and records as required
 - 3.6 Keep equipment and work area clean
 - 3.7 Shut down equipment as required
- 4 **Respond to routine problems in accordance with procedures**
- 4.1 Recognise known faults that occur during the operation
 - 4.2 Identify and take action on causes of routine faults
 - 4.3 Log problems as required
 - 4.4 Identify non-routine problems and report to designated person

Foundation Skills

This section describes those required skills (language, literacy and numeracy) that are essential to performance.

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

Range of Conditions

This field allows for 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.

Regulatory framework The latest version of all legislation, regulations, industry codes of practice and Australian/international standards, or the version specified by the local regulatory authority, must be used.

Applicable legislation, regulations, standards and codes of practice include:

- health, safety and environmental (HSE) legislation, regulations and codes of practice relevant to the workplace and hazardous materials
- Australian/international standards relevant to the materials being used and products being made
- any relevant licence and certification requirements

All operations to which this unit applies are subject to stringent HSE requirements, which may be imposed through state/territory or federal legislation, and these must not be compromised at any time. Where there is an apparent conflict between performance criteria and such requirements the legislative requirements take precedence.

Procedures All operations must be performed in accordance with relevant procedures.

Procedures are written, verbal, visual, computer-based or in some other form, and include one or any combination of:

- emergency procedures
- work instructions
- standard operating procedures (SOPs)
- safe work method statements (SWMS)
- formulae/recipes
- batch sheets
- temporary instructions
- any similar instructions provided for the smooth running of the plant.

Tools and equipment Tools and equipment include one or more of:

- coating equipment
- brushes
- spray guns

- film coaters
- immersion equipment.

Additional tools and equipment will be selected as required from:

- vapour extraction
- application booths
- hand tools
- hoists/lifting equipment not requiring any special permits or licences
- manual handling aids, such as hand carts and trolleys
- relevant personal protective equipment (PPE).

Hazards

Hazards must be identified and controlled. Identifying hazards requires consideration of:

- weight, shape, volume of materials to be handled
- hazardous products and materials
- sharp edges, protrusions or obstructions
- slippery surfaces, spills or leaks
- rotational equipment or vibration
- smoke, dust, vapours or other atmospheric hazards
- electricity
- gas
- gases and liquids under pressure
- structural hazards
- equipment failures
- machinery, equipment and product mass
- other hazards that might arise.

Routine problems

Routine problems must be resolved by applying known solutions.

Routine problems are predictable and include one or more of:

- incorrect selection of materials
- variations in materials
- contamination of materials or product surface
- inappropriate application of coatings
- dust and other contamination
- drying rates
- film thickness variation
- film application rates
- coverage and opacity

- products with surface or other faults.

Known solutions are drawn from one or more of:

- procedures
- training
- remembered experience.

Non-routine problems must be reported according to according to relevant procedures.

Unit Mapping Information

Release 1. Supersedes and is equivalent to PMBPROD249B Apply liquid surface coatings

Links

MSA Training Package Implementation Guides - <http://mskills.org.au/training-packages/info/>