



Australian Government

CPCPRE2004 Caulk prefabricated concrete elements

Release: 1

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Modification History

- Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 9.0.
Newly created unit.

Application

This unit of competency specifies the skills and knowledge required to caulk concrete prefabricated elements according to specified requirements.

It requires using tools and equipment appropriate for caulking prefabricated concrete elements.

A person who has achieved this unit of competency would be expected to apply caulking techniques to vertical and horizontal joints between concrete prefabricated elements.

Completion of the general construction induction training program, specified in the Safe Work Australia model Code of Practice: Construction Work, is required by anyone carrying out construction work. Achievement of CPCWHS1001 Prepare to work safely in the construction industry meets this requirement.

Licensing, legislative, regulatory or certification requirements apply to this unit of competency in some states and territories. For further information, check with the relevant regulatory authority.

Pre-requisite Unit

- CPCCWHS2001 Apply WHS requirements policies and procedures in the construction industry
- CPCCCM2012 Work safely at heights

Unit Sector

Prefabricated concrete

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe what needs to be done to demonstrate achievement of the element.

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| 1. Access requirements to caulk | 1.1 Review the erection design documentation and construction drawings to clarify caulking task |
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| prefabricated concrete elements. | specifications. | | | | | | |
| 1.2 | Review work health and safety (WHS) requirements for the task in accordance with safety plans and policies. | | | | | | |
| 1.3 | Conduct working at heights risk assessment and follow appropriate WHS processes. | | | | | | |
| 1.4 | Identify safety signage and barricade requirements. | | | | | | |
| 1.5 | Review environmental requirements for the task in accordance with environmental plans and legislative requirements. | | | | | | |
| 1.6 | Access tools, equipment and materials required to carry out task. | | | | | | |
| 1.7 | Locate the joints and confirm safety requirements, including working aloft, fall protection, accessibility and drop zones. | | | | | | |
| 2. Prepare to caulk prefabricated concrete elements. | <table border="0"><tr><td data-bbox="547 1037 587 1070">2.1</td><td data-bbox="655 1037 1318 1144">Erect identified safety signage and barricade requirements, and fit personal protective equipment (PPE).</td></tr><tr><td data-bbox="547 1178 587 1211">2.2</td><td data-bbox="655 1178 1362 1252">Obtain plant, tools, equipment, check for serviceability and rectify or report any faults.</td></tr><tr><td data-bbox="547 1285 587 1319">2.3</td><td data-bbox="655 1285 1385 1391">Identify materials and associated quantities/measurements required for caulking according to specifications.</td></tr></table> | 2.1 | Erect identified safety signage and barricade requirements, and fit personal protective equipment (PPE). | 2.2 | Obtain plant, tools, equipment, check for serviceability and rectify or report any faults. | 2.3 | Identify materials and associated quantities/measurements required for caulking according to specifications. |
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| 2.3 | Identify materials and associated quantities/measurements required for caulking according to specifications. | | | | | | |
| 3. Prepare concrete prefabricated joint and apply caulking and finishing technique. | <table border="0"><tr><td data-bbox="547 1494 587 1527">3.1</td><td data-bbox="655 1494 1337 1637">Remove any existing fill and clean joint between concrete prefabricated elements to ensure the surface area is free from laitance, dust and dirt in accordance with manufacturer technical data sheet.</td></tr><tr><td data-bbox="547 1671 587 1704">3.2</td><td data-bbox="655 1671 1382 1854">Review need for bond break tape and install backing rod using a blunt edged tool into joint between concrete prefabricated elements in accordance with manufacturer technical data sheet to control depth of injected caulking material.</td></tr><tr><td data-bbox="547 1888 587 1921">3.3</td><td data-bbox="655 1888 1369 1991">Check backing rod installation to ensure material is firmly secured within the joint, at the depth specified in the erection design documentation.</td></tr></table> | 3.1 | Remove any existing fill and clean joint between concrete prefabricated elements to ensure the surface area is free from laitance, dust and dirt in accordance with manufacturer technical data sheet. | 3.2 | Review need for bond break tape and install backing rod using a blunt edged tool into joint between concrete prefabricated elements in accordance with manufacturer technical data sheet to control depth of injected caulking material. | 3.3 | Check backing rod installation to ensure material is firmly secured within the joint, at the depth specified in the erection design documentation. |
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- 3.4 Check backing rod installation is free of punctures and air pockets and complies with fire rating and acoustic requirements.
 - 3.5 Assess if priming agent is required and, if so, apply to both edges/sides of the backing rod and concrete prefabricated elements in accordance with the manufacturer technical data sheets.
 - 3.6 Access approved sealant and apply in a constant motion using steady pressure, filling the required void, to achieve a uniform appearance in accordance with the manufacturer technical data sheet.
 - 3.7 Back tool the sealant immediately after caulking, using an appropriate caulking tool in accordance with the manufacturer technical data sheet to achieve a smooth and uniform finish, ensuring both sides of the joint are flush with sealant chamfer end.
4. Clean up.
- 4.1 Clear work area and dispose of, reuse or recycle materials in accordance with regulatory and workplace requirements.
 - 4.2 Clean, check, maintain and store tools and equipment in accordance with manufacturer and workplace requirements.

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 volumes to this training package are available at the VETNet website - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>