

Domain	BRICKLAYING	Unit ID: 34
Title:	Apply decorative finishes to concrete surfaces	
Level: 4		Credits: 8

Purpose

This unit standard specifies the competencies required to install glass blocks, fix wooden mosaic tiles to concrete floors and to apply decorative finishes to concrete surfaces providing a distinct featured face finish for walls, driveways, patios, paths, or other areas requiring a decorative finish. It includes the use of colours, exposed aggregate and textured finishes. This unit standard is intended for those who work as bricklayers and plasterers.

Special Notes

1. Entry information

Prerequisite:

 - Unit 3 - *Apply safety rules and regulations in bricklaying operations* or demonstrated equivalent knowledge and skills.
2. Assessment evidence may be collected from a real workplace or a simulated real workplace or an appropriate simulated realistic environment in which bricklaying operations are carried out.
3. All inspection, operation and maintenance procedures associated with the use of tools and equipment shall comply with manufacturers' guidelines and instructions.
4. '*Specifications*' refers to any, or all of the following: manufacturers' specifications and/or recommendations, site and/or workplace specific requirements.
5. Regulations and legislation relevant to this unit standard include the following:
 - Labour Act No 6, 1992
 - Occupational Health and Safety Regulations No.18, 1997
 and all subsequent amendments.

Quality Assurance Requirements

This unit standard and others within this subfield may be awarded by institutions which meet the accreditation requirements set by the Namibia Qualifications Authority and the Namibia Training Authority and which comply with the national assessment and moderation requirements. Details of specific accreditation requirements and the national assessment arrangements are available from the Namibia Qualifications Authority and the Namibia Training Authority on www.nta.com.na

Elements and Performance Criteria

Element 1: Plan and prepare for work

Range

Planning and preparation is to include but is not limited to worksite inspection, equipment defect identification, assessment of conditions and hazards and determination of work requirements.

Tools and equipment are to include but are not limited to shovels, trowels, floats, hoses, spirit levels, wheelbarrows, brooms, measuring tapes/rules, hammers, jointing tools, mortar boards, straight edges, builders lines, and may include power trowels, brooms, stipple devices, rollers, work platforms, concrete mixers, spray bottles, spray attachments, masonry saws, and pointing and jointing tools.

Materials may include but are not limited to glass bricks, wooden mosaic tiles, colourants, release agents, mortar additives, adhesives and aggregates.

Performance Criteria

- 1.1 Work instructions, including plans, specifications, quality requirements and operational details are obtained, confirmed and applied.
- 1.2 Safety requirements are followed in accordance with safety plans and policies.
- 1.3 Sign and barricade requirements are identified and implemented.
- 1.4 Plant, tools and equipment selected to carry out tasks are consistent with the requirements of the job, checked for serviceability and any faults are rectified or reported prior to commencement.
- 1.5 Material quantity requirements are calculated in accordance with plans and/or specifications.
- 1.6 Materials appropriate to the work application are identified, obtained, prepared, safely handled and located ready for use.
- 1.7 Environmental protection requirements for the project are identified and applied in line with environmental plans and regulatory obligations.

Element 2: Install glass blocks

Performance Criteria

- 2.1 Location and dimensions of glass block work are determined from plans and specifications.
- 2.2 Work platform is erected in accordance with regulatory authorities' and workplace requirements.
- 2.3 Area for set out is located and base and abutting surfaces are checked for level/plumb and finished to specifications.

- 2.4 Surface area preparation for block work installation is checked to be clean, dry and in accordance with manufacturers' recommendations and plans and specifications.
- 2.5 Wall or section of block work is set out to base details according to plans and specifications.
- 2.6 Mortar mix is prepared and checked for conformity to specifications and standards.
- 2.7 If required by specifications, frame is installed onto the base and fixed into position in accordance with manufacturers' requirements.
- 2.8 Mortar mix is applied according to manufacturers' recommendations, standards and plans and specifications.
- 2.9 Glass blocks are laid to set out line, plumb, level and to design pattern in accordance with manufacturers' recommendations, plans and specifications.
- 2.10 Glass block work installation is completed to standards and plans and specifications.
- 2.11 Glass block work joints are tool finished to achieve specified finish in accordance with manufacturers' recommendations, standards and plans and specifications.
- 2.12 Excess mortar mix is removed from glass block work and surfaces are cleaned in accordance with manufacturers' recommendations, standards and plans and specifications.

Element 3: Fix wooden mosaic tiles to concrete surfaces

Performance Criteria

- 3.1 Type of wooden mosaic tiles specified in job requirements is specified.
- 3.2 Surface is prepared.
- 3.3 Wooden mosaic tiles installed as specified in manufacturer's instructions.
- 3.4 Wooden mosaic tiles are sanded and polished as specified in manufacturers' instructions.

Element 4: Carry out exposed aggregate finishes

Range

Exposed aggregate finishes are achieved by hosing off the top layer of cement slurry from the concrete which exposes the added naturally coloured stone finish determined by the customer.

Performance Criteria

- 4.1 Selected aggregates are incorporated in concrete mix to specifications.
- 4.2 Surface matrix is removed to expose aggregate.
- 4.3 Exposed aggregate is left clean and free to designed effect and specifications.
- 4.4 Control joints are inserted during placement and/or cut into applied finish after setting, to specifications.

Element 5: Carry out textured finishes

Range

Textured finishes may include but are not limited to a polished finish, a rough textured finish (non slip) applied with a trowel or stipple device and includes the application of colour.

Performance Criteria

- 5.1 Method of applying texture is determined in accordance with designed finish and specifications.
- 5.2 Base colour and topping dust are prepared and applied to specifications.
- 5.3 Base colour is floated into surface to specifications.
- 5.4 Colour(s) are randomly applied, where specified, onto surface at random locations to create decorative type colourings.
- 5.5 Finish is applied with trowel to create designed pattern and surface effect to specifications.
- 5.6 Control joints are inserted during placement and/or cut into applied finish after setting, to specifications.

Element 6: Clean up

Performance Criteria

- 6.1 Work area is cleared and materials disposed of, reused or recycled in accordance with legislation, regulations and job specifications.
- 6.2 Plant, tools and equipment are cleaned, checked, maintained and stored in accordance with manufacturers' recommendations and standard work practices.

Registration Data

Subfield:	General Construction
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