

Title	Evaluate, clean, and prepare fibre-reinforced composite substrates for surface coatings		
Level	4	Credits	5

Purpose	People credited with this unit standard are able to evaluate, clean, and prepare fibre-reinforced composite (FRC) substrates for surface coatings.
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Classification	Boating Industries > Boatbuilding
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Available grade	Achieved
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Guidance Information

- 1 All work practices must meet recognised codes of practice and documented worksite health and safety procedures (where these exceed code) for personal, product, and worksite health and safety, and must meet the obligations required under the Health and Safety at Work Act 2015, Health and Safety in Employment Regulations 1995, Resource Management Act 1991, and Hazardous Substances and New Organisms Act 1996, and any subsequent amendments.
- 2 **Definitions**
FRC refers to a made laminate from any combination of fibres, cores and resins including polyester, vinylester, or epoxy resins. FRC is a generic term which includes GRP (Glass Reinforced Plastic).
Workplace policies and procedures refer to the documented procedures and policies providing guidelines of the tasks and activities carried out in the workplace. This typically includes relevant health and safety policies to manage risk in the workplace.
- 3 **Range**
FRC substrates – bare previously coated, unsound.
- 4 This unit standard assesses preparation activities of the substrate so that it can be filled and faired. It does not include filling and fairing, or the application of any surface coatings.

Outcomes and performance criteria

Outcome 1

Evaluate and clean FRC substrates for surface coatings.

Performance criteria

- 1.1 FRC substrate is evaluated for soundness and deterioration, and action taken if unsound or deteriorated areas are found in accordance with workplace policies and procedures, and manufacturer's specifications.

Range osmosis, ultraviolet damage, structural damage.

- 1.2 Cleaning is undertaken to ensure the substrate is free of contamination in accordance with workplace policies and procedures, and manufacturer's specifications.

Outcome 2

Prepare FRC substrates for surface coatings.

Performance criteria

- 2.1 Preparation method for the surface is selected relevant to the FRC soundness.

- 2.2 Preparation methods of the surface are carried out in accordance with workplace policies and procedures to achieve coating manufacturer's and design requirements.

Range surface preparation can be interior or exterior.

- 2.3 Protection for areas not to be coated is applied in accordance with workplace policies and procedures.

Planned review date	31 December 2026
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	27 August 1997	31 December 2017
Review	2	28 March 2001	31 December 2017
Rollover and Revision	3	17 October 2008	31 December 2017
Review	4	8 December 2016	31 December 2023
Review	5	26 August 2021	N/A

Consent and Moderation Requirements (CMR) reference	0136
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact the NZ Marine and Composites ITO training@nzmarine.com if you wish to suggest changes to the content of this unit standard.