

0672P MASTERWALL TEXTURED AND MEMBRANE COATINGS

Branded worksection

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Worksection abstract

This worksection *Template* is applicable to Masterwall latex extensible (membrane) coating and textured surface coating systems to buildings. The primary referenced standard is AS/NZS 2311 (2017), a guide to products and procedures for the painting of buildings for domestic, commercial and industrial use.

Background

Coating systems are multi-layer systems that may be used as a decorative finish and provide water resistance.

Masterwall also provide insulated substrates including:

- X-Series: M grade polystyrene panels. CodeMark Certificate of Conformity CM40242-103-R00. The date of expiry of this CodeMark Certificate of Conformity is 01/10/2027.
- M-Series: M grade polystyrene panels with render pre-finish. CodeMark Certificate of Conformity CM40209-103-R00. The date of expiry of this CodeMark Certificate of Conformity is 01/10/2027.

Both Masterwall insulated substrates are available in a range of thicknesses and panel sizes. Contact Masterwall for details.

How to use this worksection

Customise this worksection *Template* for each project. See [A guide to NATSPEC worksections \(www.natspec.com.au\)](http://www.natspec.com.au) for information on *Template* structure, word styles and completing a worksection.

Related material located elsewhere in NATSPEC

If a listed worksection is not part of your subscription package and you wish to purchase it, contact NATSPEC.

Related material may be found in other worksections, including:

- *0671 Painting.*

Documenting this and related work

You may document this and related work as follows:

- Adapt the schedules in SELECTIONS to a Finishes schedule to your office documentation policy.

The *Normal* style text of this worksection may refer to items as being documented elsewhere in the contract documentation. Make sure they are documented.

Search acumen.architecture.com.au, the Australian Institute of Architects' practice advisory subscription service, for notes on the following:

- Guarantees and warranties.
- Lead hazards in construction.

Specifying ESD

Refer to NATSPEC TECHreport TR 01 on specifying ESD.

1 GENERAL

Masterwall is Australia's leading provider of innovative External Insulation Finishing Systems (EIFS). Our comprehensive product range includes the Masterwall Insulated Cladding System, Rendered Panel Systems, M-TEX Premium Renders, Textures, Colours and Coatings, Masterfloor Underfloor Insulation, SKYLINE Architectural Capless Parapet System, UMBRA Architectural Shadings, and Matrixx Architectural Mouldings. We enhance energy efficiency, durability, and aesthetics in residential and commercial projects, meeting the unique demands of the Australian climate and architectural standards.

1.1 RESPONSIBILITIES

General

Requirement: Provide Masterwall coating systems to substrates, as documented.

Documented is defined in *0171 General requirements* as meaning contained in the contract documents.

Performance

Requirement:

- Consistent in colour, gloss level, texture and thickness.
- Free of runs, sags, blisters, or other discontinuities.
- Fully opaque coating systems.
- Clear finishes at the level of transparency consistent with the product.
- Fully adhered.
- Resistant to environmental degradation within the manufacturer's stated life span.
- Accommodating movement in the substrate, except across control joints.

1.2 COMPANY CONTACTS**Masterwall technical contacts**Website: masterwall.com.au/contact-us/**1.3 CROSS REFERENCES****General**

Requirement: Conform to the following:

- 0171 General requirements.

0171 General requirements contains umbrella requirements for all building and services worksections.

List the worksections cross referenced by this worksection. 0171 General requirements references the 018 Common requirements subgroup of worksections. It is not necessary to repeat them here. However, you may also wish to direct the contractor to other worksections where there may be work that is closely associated with this work.

NATSPEC uses generic worksection titles, whether or not there are branded equivalents. If you use a branded worksection, change the cross reference here.

1.4 STANDARDS**Textured and membrane coatings**

General: To the recommendations of those parts of AS/NZS 2311 (2017) referenced in this worksection.

1.5 MANUFACTURER'S DOCUMENTS**Technical manuals**Website: masterwall.com.au/m-tex/**1.6 INTERPRETATION****Definitions**

General: For the purposes of this worksection, the following definitions apply:

Additional definitions are provided in AS/NZS 2310 (2002).

- Aggregate filled textured latex coating: An aggregate filled medium to high profile textured coating selected for aesthetic purposes to provide maximum relief from underlying surface irregularities according to the application technique used.
- Gloss: The optical property of a surface, characterised by its ability to reflect light specularly.
- Gloss unit: Numerical value for the amount of specular reflection relative to that of a standard surface under the same geometric conditions.

Gloss levels can be measured on site in gloss units with a digital gloss meter.

- High-build low profile latex coating: A water based coating designed to be used over textured coatings to increase the exposure performance of the system.
- Latex extensible wall coating (or membrane coating): A non-aggregate flexible watertight finish.
- Levels of gloss finish: When the specular direction is 60 degrees, surfaces with the following specular gloss reading are defined as follows:
 - . Full gloss: > 85 gloss units.
 - . Gloss: > 50 and ≤ 85 gloss units.
 - . Semi-gloss (satin): > 20 and ≤ 50 gloss units.

- . Low gloss (low sheen): > 5 and ≤ 20 gloss units.
- . Flat finish (matt): ≤ 5 gloss units.

From AS/NZS 2311 (2017) clause 4.1. Gloss units are measured to AS/NZS 1580.602.2 (1995).

- Non-aggregate textured latex coating: A latex coating selected for aesthetic purposes to provide decorative profiles according to the application technique used.
- Opacity: The ability of a paint or textured and membrane coating to obliterate the colour difference of a substrate.
- Paint: A product in liquid form that, when applied to a surface, forms a dry film having protective, decorative or other specific technical properties.
- Primer, prime coat: The first coat of a coating system that helps bind subsequent coats to the substrate and which may inhibit its deterioration.
- Substrate: The surface to which a material or product is applied.
- Undercoat: An intermediate coat formulated to prepare a primed surface or other prepared surface for the finishing coat.

Edit the **Definitions** subclause to suit the project or delete if not required. List alphabetically.

1.7 SUBMISSIONS

Fire performance

Non-combustibility: Submit evidence of conformity to **FIRE PERFORMANCE, Non-combustibility**.

Operation and maintenance manuals

Requirement: Submit manual to **COMPLETION, Operation and maintenance manuals**.

Products and materials

General: Submit the manufacturer's details at least 3 weeks before the coating is required, as follows:

- Coating brand name.
- Product data sheets.

Evidence of delivery: Submit delivery docket as evidence of delivery of [complete/delete]

If evidence of delivery to site is required for particular products, consider including this *Optional* style text by changing to *Normal* style.

Samples

Requirement: Submit samples to PRODUCTS, **GENERAL, Samples**.

Subcontractors

Specialist applicators: Submit name and contact details of proposed specialist applicators.

Evidence of experience: [complete/delete]

Delete if specialist applicator details are not required.

Substrate acceptance

Requirement: Submit evidence of applicator's acceptance of the coating substrate before starting installation.

Warranties

Requirement: Submit warranties to **COMPLETION, Warranties**.

1.8 INSPECTION

Notice

Inspection: Give notice so that inspection may be made of the following:

- Completion of substrate preparation.
- After application of prime or seal coats.
- After application of undercoat.
- After application of each subsequent coat.

Edit to suit the project, adding critical stage inspections required.

Hold points, if required, should be inserted here.

A project-wide halt between each coat is considered impractical. Examples of inspections required include:

- After application of prime or seal coats.

- After application of undercoat.

2 PRODUCTS

2.1 GENERAL

Product substitution

Other products: Conform to **SUBSTITUTIONS** in 0171 *General requirements*.

Product identification

General: Marked to show the following:

- Manufacturer's identification.
- Product brand name.
- Product type.
- Quantity.
- Product reference code and batch number.
- Date of manufacture.

Edit the list to suit the project or delete if not required.

Samples

Requirement: Provide labelled samples of each coating system, on representative substrates, showing surface preparation, colour, gloss level, texture and physical properties.

Document samples in the **Coated samples schedule**.

Storage and handling

General: Store materials not in use in tightly covered containers in well-ventilated areas with temperatures maintained at the manufacturer's recommendations.

Delivery: Deliver coatings to the site in the manufacturer's labelled and unopened containers.

2.2 FIRE PERFORMANCE

Non-combustibility

Masterwall M-Tex Fibre reinforced (FR) Render: Tested to the NCC cited AS 1530.1 (1994).

Masterwall M-Tex GP Render and GP Cream: Tested to the NCC cited AS 1530.1 (1994).

The NCC cites AS 1530.1 (1994). The current edition is AS 1530.1 (2024).

Non-combustible construction required: [complete/delete]

List any parts of the project that the NCC requires to be non-combustible or delete, if none. The NCC requires that construction required to be non-combustible (e.g. fire walls, external walls in Type A and B construction and spandrels with a specific FRL) must be constructed wholly of materials that are not deemed combustible. See BCA (2022) C2D10. In other situations the NCC does not prohibit the use of combustible insulation materials provided they meet the other fire properties.

If non-combustible construction is required, change this *Optional* style text to *Normal* style text.

2.3 COATINGS

Standards

Coating types:

- Wall coatings - latex extensible: To AS/NZS 4548.1 (1999).
- Latex finish coatings – high-build, low profile: To AS/NZS 4548.2 (1999).
- Latex – textured coatings – non aggregate: To AS/NZS 4548.3 (1999).
- Latex – textured coatings – aggregate filled: To AS/NZS 4548.4 (1999).

Combinations

General: Do not combine coatings from different manufacturers in a coating system.

Tinting

General: Provide only products that are colour tinted by the manufacturer.

Toxic ingredients

General: To the *Therapeutic Goods (Poisons Standard) Instrument (2025)* Part 2 Division 9.

Therapeutic Goods (Poisons Standard) Instrument (2025) Part 2 Division 9 contains two groups. The first lists toxic pigment components such as barium and cadmium and the second lists toxic solvents. The First Group of paints are banned for use on roofs, furniture, fences and gates, surface of non-industrial buildings and in premises used for products intended for human consumption. Check for any state variations.

2.4 M-TEX PREPARATION PRODUCTS

Patch

Product: Flexible acrylic base coat preparation, available in coarse and fine grades.

Panel wash

Product: Concrete panel surface cleaning solution for removing release agent film from precast concrete panels.

2.5 M-TEX BASE COATS

PRO render

Product: Premium cementitious polymer modified render for EPS and low pervious, meshed, lightweight substrates.

GP render

Product: Modified general purpose masonry render.

GP cream

Product: Modified general purpose masonry base coat render with a creamy consistency for ease of application.

High build

Product: masonry base coat blended with EPS beads for lightweight, high build applications.

Dry texture

Product: Cementitious render applied as a final skim over base coats, floated to an even texture finish.

FR Render

Product: Microfibre reinforced cementitious base coat render for AAC substrates.

Fast render

Product: Modified sand cement base coat with added compounds for greater adhesion. For use on masonry substrates.

2.6 M-TEX PRIMERS

Rendercoat primer

Product: Water based emulsion primer to seal and consolidate masonry substrates.

Gripcoat masonry primer

Product: Pigmented masonry primer with the addition of fine grit for application to smooth surfaces, allowing consistent spread of texture coatings.

Masonry primer concentrate

Product: Highly penetrative masonry primer for dense and porous substrates.

2.7 M-TEX TEXTURE COATINGS

Cicchini premium textures

Venezia: Pre-mixed acrylic skim coat producing an ultra-fine concrete style finish. Available in a range of colours.

Platinum: Smooth acrylic texture. Available in three concrete colour shades and can be trowel finished to a smooth surface.

Marble

Product: Premium marble acrylic texture. Suitable for a wide range of substrates including masonry and lightweight cladding.

Granite

Product: Premium granite acrylic texture. Suitable for a wide range of substrates including masonry and lightweight cladding.

Sapphire

Product: Australian silica sand based acrylic texture with a fine grained finish.

Scratch finish

Product: Italian style scratch acrylic texture available in 1 mm or 2 mm grain options. Finished with directional floating to produce a rustic grained finish.

Sahara

Product: Fine sand texture with exposed aggregate flecks.

Roll on fine

Product: Fine grade acrylic texture for roller application.

Roll on 2 mm

Product: Coarse grade acrylic texture, approximately 2 mm thick, for roller application.

2.8 M-TEX TOPCOATS**Flex coat**

Product: Protective acrylic membrane paint applied as a protective topcoat.

Hydro clear

Product: Water resistant, vapour permeable invisible sealer.

Hydro film

Product: Clear protective acrylic coating.

2.9 ACCESSORIES**General**

Beads: Proprietary PVC or metal sections manufactured for fixing to substrates and/or embedding in the render to form and protect edges and junctions.

Control joints: Provide proprietary products manufactured for use with the rendering system and to accommodate the anticipated movement of the substrates.

Scrim tape: Provide a proprietary fibreglass reinforced mesh product manufactured for use with render.

3 EXECUTION

3.1 PREPARATION

Previously painted surfaces may require specific reference to one of the methods recommended in AS/NZS 2311 (2017) Section 7, which deals with pre-treatment - for example mechanical power cleaning, flame cleaning, water blasting. For previously painted surfaces that may contain lead, refer to AS/NZS 4361.2 (2017).

General

Standard: To AS/NZS 2311 (2017).

Order of work

Other trades: Before applying textured and membrane coatings, complete the work of other trades as far as practicable within the area to be coated.

Protection

Fixtures: Remove door furniture, switch plates, light fittings and other fixtures before starting coating and refix in position undamaged on completion of the coating.

Adjacent surfaces: Protect adjacent finished surfaces liable to damage from coating operations.

Substrates

General: Prepare substrates to receive the Masterwall coating systems.

Cleaning: Clean down the substrate surface to the manufacturer's recommendations. Do not cause damage to the substrate or the surroundings.

Filling: Fill cracks and holes with Masterwall Patch, acrylic base coat preparation, or as appropriate for the substrate.

Substrate moisture content

Moisture content: Use a moisture meter to demonstrate that the moisture content of the substrate is at or below the recommended maximum level for the type of coating and the substrate material.

3.2 APPLICATION

Masterwall coating systems

General: Apply the complete coating system to the manufacturer's recommendations.

Refer to the Masterwall Substrate Selector for recommended applications to various substrates.

Standard

Methods of application: To AS/NZS 2311 (2017) Section 6.

Light levels

General: ≥ 400 lux.

Edit for other artificial illumination conditions.

Coating conditions

General: Unless the coating system is recommended by the manufacturer for such conditions, do not apply under the following conditions:

- Dusty conditions.
- Relative humidity: $> 85\%$.
- Surface temperature: $< 10^{\circ}\text{C}$ or $> 35^{\circ}\text{C}$.

Coating application

Timing: Apply the first coat immediately after substrate preparation and before contamination of the substrate can occur. Apply subsequent coats after the manufacturer's recommended drying period has elapsed.

Repair

Requirement: Clean off marks, coating spots and stains progressively and restore damaged surfaces to their original condition.

Wet paint warning

Notices: Place in a conspicuous location and do not remove until the coating is dry.

3.3 COMPLETION

General

Protection and masking: Remove masking and protection coverings before coating has dried.

Cleaning: On completion of coatings, remove splatters by washing, scraping or other methods that do not scratch or damage adjacent finished surfaces.

Reinstatement: Repair, replace or refinish any damage, including works of other trades. Touch up new damaged coatings or misses with the coating product batch used in the original application.

Fixtures: Refix removed and undamaged fixtures in their original location, make sure they are properly fitted and in proper working order.

Disposal of products and waste materials

Requirement: Conform to requirements of the local authority.

Consider including requirements for the disposal of all hazardous materials associated with coating systems. Check if the local council waste facility caters for the disposal of paint and painting waste materials or if the paint manufacturer has a collection and recycling plan.

Operation and maintenance manuals

Requirement: Prepare a manual that includes the manufacturer's published use, care and maintenance instructions.

Compliance with this subclause targets the Operations and Maintenance requirement within the Minimum Expectation level of the Verification and Handover credit in Green Star Buildings (2021).

Warranties

Refer to 0171 General requirements for appropriate warranty type and the terms covered in the warranty.

Selection of warranty type: Check warranty type is suitable for intended purpose for selected product or material.

Type: [complete/delete]

Refer to **Warranty types** in 0171 General requirements and nominate the appropriate warranty type here.

Period: [complete/delete]

Masterwall warrants the M-TEX texture only system for a period of 7 years from completion date, if installed in accordance with the system specification and is greater than 1 km from breaking surf or heavy industrial areas.

The warranty is extended to 15 years with the inclusion of two coats of approved M-TEX protective topcoat. To achieve warranty within 1 km of breaking surf or heavy industrial areas, two coats of approved M-TEX protective topcoat must be included in the texture system.

Masterwall Australia does not recommend the application of texture colours with a LRV (Light Reflectance Value) below 40% be applied to the Masterwall external cladding, UMBRA, or SKYLINE systems.

Insert the required warranty period and terms, which should be negotiated beforehand. If the warranty is in the form of separate material and installation warranties, the signatures of both manufacturer and installer are required.

4 SELECTIONS

Schedules are a tool to specify properties required for products or systems. If the principal permits documentation of the product or system by proprietary name, some of the properties may be unnecessary and can be deleted. Document the product or system's location or application here and/or on the drawings with a matching project code. Refer to NATSPEC TECHnote GEN 024 for guidance on using and editing schedules.

4.1 SAMPLES

Coated samples schedule

Substrate	Coating system	Colour/texture	Texture application	Sample size

Colour/texture: If coating is required to be mixed or tinted to match samples provided, consult the manufacturer to make sure that the colours selected satisfy the required durability and opacity, and will conform to requirements in the documented number of coats.

Texture application: Nominate float type or nap length of the roller.

4.2 COATING SYSTEMS

Masterwall M-Tex coating schedule

	A	B	C
Location			
Substrate			
Substrate preparation product			
Base coat			
Primer			
Texture coating			
Topcoat			
Colour			

The codes in the header row of the schedule designate each application or location of the item scheduled. Edit the codes to match those in other contract documents.

Location: Nominate the drawing reference or location. Describe or nominate a coating code to reference a Finishes Schedule to your office documentation policy. Some coatings specially formulated for fibre cement, AAC and tilt-up concrete cladding systems are for external use only.

Substrate: e.g. Masterwall M or X Series insulation panels, off-form concrete, fibrous cement sheeting, masonry. Confirm product suitability for the substrate with the manufacturer of the coating system.

Substrate preparation product: Select from the following Masterwall products:

- Patch.
- Panel Wash.

Base coat: Select from the following Masterwall products:

- PRO render.
- GP render.

- GP cream.
- High build.
- Dry texture.
- FR Render.
- Fast render.

Primer: Select from the following Masterwall products:

- Rendercoat primer.
- Gripcoat masonry primer.
- Masonry primer concentrate.

Texture coating: Select from the following Masterwall products:

- Cicchini premium texture: Venezia.
- Cicchini premium texture: Platinum.
- Marble.
- Granite.
- Sapphire.
- Scratch finish.
- Sahara.
- Roll on fine.
- Roll on 2 mm.

Topcoat: Select from the following Masterwall products:

- Flex coat.
- Hydro clear.
- Hydro film.

Colour: Nominate the finished colour of the product. The colour may be introduced in the texture coating or in the topcoat layer.

REFERENCED DOCUMENTS

The following documents are incorporated into this worksection by reference:

AS 1530		Methods for fire tests on building materials, components and structures
AS 1530.1	1994	Combustibility test for materials
AS/NZS 2311	2017	Guide to the painting of buildings
AS/NZS 4548		Guide to long-life coatings for concrete and masonry
AS/NZS 4548.1	1999	Wall coatings - Latex extensible
AS/NZS 4548.2	1999	Latex finish coatings - High-build, low profile
AS/NZS 4548.3	1999	Latex - Textured coatings - Non-aggregate
AS/NZS 4548.4	1999	Latex - Textured coatings - Aggregate-filled
AUS Gov Poisons standard 2025		Therapeutic Goods Instrument 2025

The following documents are mentioned only in the **Guidance text**:

AS 1530		Methods for fire tests on building materials, components and structures
AS 1530.1	2024	Combustibility test for materials (ISO 1182:2020, NEQ)
AS 1580		Paints and related materials - Methods of test
AS/NZS 1580.602.2	1995	Measurement of specular gloss of non-metallic paint films at 20 degrees, 60 degrees and 85 degrees (ISO 2813:1994)
AS/NZS 2310	2002	Glossary of paint and painting terms
AS/NZS 4361		Guide to hazardous paint management
AS/NZS 4361.2	2017	Lead paint in residential, public and commercial buildings
BCA C2D10	2022	Fire resistance - Fire resistance and stability - Non-combustible building elements
CM40209	2024	Masterwall M-series insulated cladding systems
CM40242	2024	Masterwall X-series insulated cladding systems
GBCA Buildings	2021	Green Star Buildings
NATSPEC GEN 024		Using NATSPEC selections schedules
NATSPEC TR 01		Specifying ESD