

0672P WATTYL – GRANOSITE TEXTURED AND MEMBRANE COATINGS

Branded worksection

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Background

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

Worksection abstract

This worksection *Template* is applicable to the in situ application of GRANOSITE latex extensible (membrane) coating and textured surface coating systems to buildings and interior elements. The primary referenced standard is AS/NZS 2311 which provides a guide to products and procedures for the painting of buildings for general domestic, commercial and industrial use.

Guidance text

All text within these boxes is provided as guidance for developing this worksection and should not form part of the final specification. This *Guidance* text may be hidden or deleted from the document using the NATSPEC Toolbar or the hidden text *Hide* and *Delete* functions of your word processing system. For additional information visit FAQs at www.natspec.com.au.

Optional style text

Text in this font (blue with a grey background) covers items specified less frequently. It is provided for incorporation into *Normal* style text where it is applicable to a project.

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. For example:

- 0345P WATTYL steel protective paint coatings.
- 0671p WATTYL 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:

- Paint.
- Guarantees and warranties.

Specifying ESD

The following may be specified by including additional text:

- Coatings with low/zero VOC emission.
- Recycled material, e.g. recycled glass.
- Waterborne instead of solvent borne coatings.
- Coatings with recovery programs for unused/unwanted paints.

Refer to the NATSPEC TECHreport TR 01 on specifying ESD.

1 GENERAL

Australia's original texture brand, with more than 60 years of providing quality texture products, Granosite provides superior performance and protection on all substrates. With a comprehensive range of exterior products for residential and commercial buildings, Granosite offers high build topcoats, giving long-lasting performance, featuring a wide range of texture profiles. Granosite is the preferred choice for commercial and residential new build exterior projects, with texture coatings systems including preps and primers, topcoats and membranes, texture and texture accessories.

1.1 RESPONSIBILITIES

General

Requirement: Provide coating systems to substrates, as documented.

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

Performance

Requirement: Provide coating systems conforming to the following:

- Consistent in colour, gloss level, texture and dry film 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 bonded.
- Resistant to environmental degradation within the manufacturer's stated life span.
- Accommodating movement in the substrate between control joints.

1.2 COMPANY CONTACTS

Granosite technical contacts

Website: www.granosite.com.au/contactus

Coating details: www.granosite.com.au/index

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: Comply with the recommendations of those parts of AS/NZS 2311 which are referenced in this worksection.

1.5 MANUFACTURER'S DOCUMENTS

Technical manuals

Technical and safety Data Sheets: www.valsparprofessional.com.au/products/

System specification sheets: www.valsparprofessional.com.au/specifications/

1.6 INTERPRETATION

Definitions

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

Additional definitions are provided in AS/NZS 2310.

- Adhesion (paint): Adhesion (paint): The sum total of forces of attachment between a dry film and its substrate.
- 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 is defined as follows:
 - . Full gloss: Over 85 gloss units.
 - . Gloss: Over 50 and up to 85 gloss units.
 - . Semi-gloss (satin): Over 20 and up to 50 gloss units.
 - . Low gloss (low sheen): Over 5 and up to 20 gloss units.
 - . Flat finish (matt): Up to 5 gloss units.

From AS/NZS 2311 clause 4.1. Gloss units are measured to AS/NZS 1580.602.2.

- 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 or coating system: A product in liquid form, which 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 painting 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

Operations and maintenance manuals

Requirement: At completion, submit the manufacturer's published use, care and maintenance instructions.

Products and materials

General: Granosite coating systems have been selected for this project. Submit the selected manufacturer's details at least 3 weeks before the coating is required, as follows:

- Granosite product name and designation.
- Product data sheets.
- Safety data sheets (SDS) showing the health and safety precautions to be taken during application.

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

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

Samples

Granosite texture samples can be ordered from Professional Services. See contact details at **COMPANY CONTACTS**.

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

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 nap length of the roller.

Subcontractors

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

Evidence of delivery: [complete/delete]

Delete if supplier/installer details are not required.

Substrate acceptance: Submit the applicator's certification of the acceptability of the coating substrate before commencing 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.

Amend to suit the project, adding critical stage inspections required. **Hold points**, if required, should be inserted here.

2 PRODUCTS

2.1 GENERAL

Product substitution

Other products: Conform to PRODUCTS, **GENERAL, Substitutions** in *0171 General requirements*.

The *0171 General requirements* clause sets out the submissions required if the contractor proposes alternative products. Refer also to NATSPEC TECHnote GEN 006 for more information on proprietary specification.

Product identification

General: Marked to show the following:

- Manufacturer's identification.
- Product brand name.
- Product type.
- Quantity.
- Product reference code and batch number.
- Material composition and characteristics such as volatility, flash point, light fastness, colour and pattern.

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

Delivery

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

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.

2.2 COATINGS

Standards

Coating types:

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

Combinations

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

Tinting

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

Toxic ingredients

General: To the *Poisons Standard - Schedule 1 (SUSMP)* Part 2 Section 7.

Part 2 Section 7 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.

3 EXECUTION**3.1 PREPARATION**

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

Standard

General: To AS/NZS 2311 Section 3.

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 coating systems.

Cleaning: Clean down the substrate surface. Do not cause undue damage to the substrate or damage to, or contamination of, the surroundings.

Filling: Fill cracks and holes with fillers, sealants or grouting cements as appropriate for the coating system and the substrate.

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.

Wet paint warning

General: Place notices conspicuously and do not remove them until the coating is dry.

3.2 APPLICATION**Proprietary coating systems**

General: Apply the complete coating system to the Granosite's product data sheets.

Standard

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

Light levels

General: ≥ 400 lux.

Amend for other artificial illumination conditions.

Painting conditions

General: Unless the paint is recommended for such conditions, do not paint 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.

Spraying

Coatings with known health hazards: Not permitted on site.

Repair

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

3.3 COMPLETION**Cleaning**

General: On completion, remove splatters by washing, scraping or other methods which 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 only with the same coating product batch used in the original application.

Fixtures: Refix removed and undamaged fixture in the 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 government 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.

Warranties

Requirement: Cover materials and workmanship in the terms of the warranty in the form of interlocking warranties from the supplier and the applicator.

Form: Against failure of materials and execution under normal environment and use conditions.

Interlocking warranty period: [complete/delete]

As available in the market.

Extent of interlocking warranty: [complete/delete]

e.g. Building facade.

4 SELECTIONS

Schedules are a way of documenting a selection of proprietary or generic products or systems by their properties. Indicate their locations here and/or on the drawings. Refer to NATSPEC TECHnote GEN 024 for guidance on using and editing schedules.

The **COATING SCHEDULES** include coating systems for the most common substrates. See **MANUFACTURER'S DOCUMENTS** for web link of system specification sheets for other substrates.

4.1 GRANOSITE COATING SCHEDULES**Elastomeric coating: Highest performance low profile texture finish schedule**

Highest performance Granosite top coat.
 Suitable for specialty substrate systems.
 Superior flexibility and elasticity.
 Superior façade waterproofing performance.
 Anti-carbonation and chloride ion protection.
 Low profile texture.

Coating code	Substrate	Top coat	Coating system	Colour reference
	Brickwork / Blockwork / Masonry	GranoSkin Membrane	GAU3020.08	
	Cement Render	GranoSkin Membrane	GAU3020.09	
	Concrete: In situ/Off-form	GranoSkin Membrane	GAU3020.10	
	Concrete: Precast/Tilt-up	GranoSkin Membrane	GAU3020.12	

Coating code	Substrate	Top coat	Coating system	Colour reference
	Panels			
	Autoclaved aerated concrete (AAC)	GranoSkin Membrane	GAU3020.21	
	Fibre cement Sheet (FCS) with rebated edges e.g.: - Cementil - BGC	GranoSkin Membrane	GAU3020.11	
	HardiTex Fibre cement Sheet (FCS) with rebated edges	GranoSkin Membrane	GAU3020.18	
	Comtex Fibre Cement Sheet (FCS) with rebated edges	GranoSkin Membrane	GAU3020.27	

Elastomeric coating: High performance low profile texture matt finish schedule

High performance Granosite top coat.

Suitable for specialty substrate systems.

Excellent flexibility and elasticity.

Low profile texture.

Coating code	Substrate	Top coat	Coating system	Colour reference
	Brickwork/ Blockwork/ Masonry	GranoShield Matt	GAU3030.08	
	Cement Render	GranoShield Matt	GAU3030.09	
	Concrete: In situ/Off-form	GranoShield Matt	GAU3030.10	
	Concrete: Precast/Tilt-up Panels	GranoShield Matt	GAU3030.12	
	Autoclaved aerated concrete (AAC)	GranoShield Matt	GAU3030.21	
	Fibre Cement Sheet (FCS) with rebated edges	GranoShield Matt	GAU3030.11	
	HardiTex Fibre Cement Sheet (FCS) with rebated edges	GranoShield Matt	GAU3030.18	
	ComTex Fibre Cement Sheet (FCS) with rebated edges.	GranoShield Matt	GAU3030.27	

Elastomeric coating: Low profile texture finish schedule

Granosite top coat.

Good flexibility and elasticity.

Good façade water resistance performance.

Excellent resistance to dirt, mould and fungi.

Anti-carbonation and chloride ion protection.

Low profile texture.

Coating code	Substrate	Top coat	Coating system	Colour reference
	Brickwork/ Blockwork/ Masonry	GranoImpact	GAU3010.08	
	Cement Render	GranoImpact	GAU3010.09	
	Concrete: In situ/Off-form	GranoImpact	GAU3010.10	
	Concrete: Precast/Tilt-up Panels	GranoImpact	GAU3010.12	
	Compressed fibre cement sheeting (CFC) Exotec	GranoImpact	GAU3010.22 GAU3010.25	

Roll-on texture: High profile, smooth to coarse texture finishes schedule

General purpose roller applied texture coating systems.

Applied with texture roller sleeves.

Smooth finishes (no aggregate):

- GranoImpact High Profile.
- GranoRoll-on Smooth.

Aggregate finishes (fine, medium and coarse):

- GranoSahara Ripple.
- GranoRoll-on Medium.
- GranoRoll-on Coarse.

Low VOC for interior applications:

- GranoRoll-on Smooth.
- GranoRoll-on Medium.
- GranoRoll-on Coarse.

Elastomeric top coat with excellent resistance to dirt, mould and fungi.

Coating code	Substrate	Intermediate coat	Top coat	Coating system	Colour reference
	Brickwork/ Blockwork/ Masonry	GranoSahara Ripple	GranoImpact	GAU3115.08	
	Cement Render	GranoSahara Ripple	GranoImpact	GAU3115.09	
	Concrete: In situ/Off-form	GranoImpact High Profile	GranoImpact	GAU3015.10	
	Concrete: In situ/Off-form	GranoSahara Ripple	GranoImpact	GAU3115.10	
	Concrete: In situ/Off-form	GranoSoffit Texture		GAU3050.10	
	Concrete: In situ/Off-form	GranoRoll-on Smooth	GranoImpact	GAU3141.10	
	Concrete: In situ/Off-form	GranoRoll-on Medium	GranoImpact	GAU3151.10	
	Concrete: In situ/Off-form	GranoRoll-on Coarse	GranoImpact	GAU3161.10	
	Concrete: Precast/Tilt-up	GranoImpact High Profile	GranoImpact	GAU3015.12	

Coating code	Substrate	Intermediate coat	Top coat	Coating system	Colour reference
	Panels				
	Concrete: Precast/Tilt-up Panels	GranoSahara Ripple	GranoImpact	GAU3115.12	
	Concrete: Precast/Tilt-up Panels	GranoRoll-on Smooth	GranoImpact	GAU3141.12	
	Concrete: Precast/Tilt-up Panels	GranoRoll-on Medium	GranoImpact	GAU3151.12	
	Concrete: Precast/Tilt-up Panels	GranoRoll-on Coarse	GranoImpact	GAU3161.12	

Trowel-on texture: Grainy aggregate high performance texture finish schedule

Grainy trowel applied texture.
 Winter grade available: GranoMarble Fast.
 High performance Granosite top coat.
 Good flexibility, elasticity and façade waterproofing performance.

Coating code	Substrate	Intermediate coat	Top coat	Coating system	Colour reference
	Brickwork/ Blockwork/ Masonry	GranoMarble or GranoMarble Fast	GranoShield Matt	GAU3413.08 or GAU3423.08	
	Cement Render	GranoMarble or GranoMarble Fast	GranoShield Matt	GAU3413.09 or GAU3423.09	
	Concrete: In situ/Off-form	GranoMarble or GranoMarble Fast	GranoShield Matt	GAU3413.10 or GAU3423.10	
	Autoclaved aerated concrete (AAC)	GranoMarble or GranoMarble Fast	GranoShield Matt	GAU3413.21 or GAU3423.21	
	Fibre Cement Sheet (FCS) with rebated edges	GranoMarble or GranoMarble Fast	GranoShield Matt	GAU3413.11 or GAU3423.11	
	HardiTex Fibre Cement Sheet (FCS) with rebated edges	GranoMarble or GranoMarble Fast	GranoShield Matt	GAU3413.18 or GAU3423.18	
	ComTex Fibre Cement Sheet (FCS) with rebated edges	GranoMarble or GranoMarble Fast	GranoShield Matt	GAU3413.27 or GAU3423.27	

Trowel-on texture: Fine sand aggregate texture finish schedule

Fine sand grainy trowel applied texture.

Aggregate is prominent and light reflective.
Tinted primer to stabilise the surface and promote adhesion.
Fine sand grainy trowel applied texture.

Coating code	Substrate	Intermediate coat	Top coat (optional)	Coating system	Colour reference
	Brickwork/ Blockwork/ Masonry	GranoQuartz		GAU3425.08	
	Brickwork/ Blockwork/ Masonry	GranoQuartz	GranoGlaze Satin	GAU3426.08	
	Cement Render	GranoQuartz		GAU3425.09	
	Cement Render	GranoQuartz	GranoGlaze Satin	GAU3426.09	
	Concrete: In situ/Off-form	GranoQuartz		GAU3425.10	
	Concrete: In situ/Off-form	GranoQuartz	GranoGlaze Satin	GAU3426.10	

Aggregate texture: GranoGranit 2 mm texture finish schedule

2 mm aggregate in clear acrylic binder.
Natural aggregate finish.
Suitable for high traffic areas.
Applied by stainless steel trowel.
Primer to stabilise the surface and promote adhesion.
GranoBasecoat coloured undercoat.
Top coated with GranoGlaze Satin.

Coating code	Substrate	Intermediate coat	Top coat	Coating system	Colour reference
	Brickwork/ Blockwork/ Masonry	GranoGranit 2 mm	GranoGlaze Satin	GAU3510.08	
	Cement Render	GranoGranit 2 mm	GranoGlaze Satin	GAU3510.09	
	Concrete: In situ/Off-form	GranoGranit 2 mm	GranoGlaze Satin	GAU3510.10	

Aggregate texture: GranoStone, 1 and 2 mm texture finish schedule

1 mm and 2 mm aggregate embedded in GranoStone Base acrylic binder.
Natural aggregate finish.
Applied by hopper gun.
Primer to stabilise the surface and promote adhesion.
Top coated with GranoGlaze Satin.

Coating code	Substrate	Intermediate coat	Top coat	Coating system	Colour reference
	Brickwork/ Blockwork/ Masonry	GranoStone 1 mm system	GranoGlaze Satin	GAU3520.08	
	Brickwork/ Blockwork/ Masonry	GranoStone 2 mm system	GranoGlaze Satin	GAU3530.08	

Coating code	Substrate	Intermediate coat	Top coat	Coating system	Colour reference
	Cement Render	GranoStone 1 mm system	GranoGlaze Satin	GAU3520.09	
	Cement Render	GranoStone 2 mm system	GranoGlaze Satin	GAU3530.09	
	Concrete: In situ/Off-form	GranoStone 1 mm system	GranoGlaze Satin	GAU3520.10	
	Concrete: In situ/Off-form	GranoStone 2 mm system	GranoGlaze Satin	GAU3530.10	

Coating code: The project specific identifier for reference in a Finishes Schedule, e.g. P1, P2.

Substrate: Used to reference the Coating systems e.g. Concrete. Different substrates usually require different coating systems.

Final coat: Design decision, e.g. GranoImpact.

Coating system: Valspar specification sheet reference as designated.

REFERENCED DOCUMENTS

The following documents are incorporated into this worksection by reference:

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
SUSMP	2018	Poisons Standard - Schedule 1 (SUSMP)

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

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 4361		Guide to lead paint management
AS/NZS 4361.2	2017	Lead paint in residential, public and commercial buildings
NATSPEC GEN 006	2007	Product specifying and substitution
NATSPEC GEN 024	2015	Using NATSPEC selections schedules
NATSPEC TR 01	2017	Specifying ESD