

Resene

the paint the professionals use

Coatings Specification

Contract:	EXTERIOR PAINTING & STAINING	
Building:	ACCOYA WEATHERBOARDS, DECKING & JOINERY	
Location:	NEW ZEALAND & AUSTRALIA	
Owner / Agent	ACCSYS Group	
Specification:	M01-01-20 amended	Date: 01/01/20
Writer:	John Kilby	
	Replaces Specification M17-07-16, M98-10-14 & A107-08-12	

SCOPE

The work involved and intended in this Contract to be carried out at the location detailed above comprises the following:

Prepare surfaces and apply Resene paint in accordance with this specification.

GUARANTEE

Disclaimer: Resene Paints will not accept any liability for loss of adhesion from blistering or discolouration of the paint system due to water ingress into the Accoya timber.

The Contractor guarantees this work under normal conditions of use against failure of:

Materials: According to 1(v) Durability of Paint Systems in the

Resene Paints One-Line Specifications and Product Data Manual.

The Contractor is to guarantee their work against all defects that may occur within three months from the completion of the contract and will be required to make good such defects at their own cost. Such defects specifically exclude damage, or consequential damage, caused by third parties which are the responsibility of the main contractor.

INSURANCE

The Contractor shall provide adequate Public Liability insurance.

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This is the specification referred to in our contract

Dated _____

Owner _____

Witness _____

Contractor _____

Witness _____

TENDERS

CONTRACT FORM

The successful Contractor will be required to sign a form of contract on Page 2 of this specification and the appending of duly witnessed signatures will be taken to indicate that they have made themselves entirely familiar with their obligations as set out in this specification.

EXAMINE SITE

Tenderers are advised to examine the site and building before tendering. The submitting of a tender will be taken as indication that the Tenderers have visited the site and made themselves familiar with the matters that might affect the fulfilment of their part of the contract and have made due allowance in their tender for these. No consideration shall be granted for any misunderstanding as to the work to be performed or materials to be used.

TIME TO COMPLETION

The Tenderers shall state in their tender:

- a) The date on which they could commence performance of the contract.
- b) The period they will require in which to complete the contract.
- c) The minimum number of workers they intend to have working on the performance of the contract.

ACCESS

Access to the site of the works for the purpose of carrying out the works shall be given to the Contractor on the date of commencement of the contract as specified under this clause. The Contractor shall begin the works immediately after such access has been given and shall proceed regularly with the same and shall complete performance of the contract within the time specified under this Clause.

BYLAWS AND REGULATIONS

The whole of the painting operations shall be carried out in conformity with Regulations and Requirements of all Public Bodies having jurisdiction in the matter and the Contractor shall pay any fees that may be payable in respect thereof.

1. GENERAL

This specification has been written in good faith with information available at the time. It is assumed that the nominated applicator has the necessary experience and equipment to fulfil the requirements of this specification. If any substrate differs or is missing from this specification, please advise the writer.

Any question arising from the specification is to be referred immediately to the writer or to the local Branch Manager, Resene Paints Limited.

Documents

1.1 DOCUMENTS REFERRED TO

Documents listed below and cited in the clauses that follow are part of this specification. However, the advice in any OSH documents and the Health and Safety in Employment Act 1992 (Amended 1993) take precedence in the event of it being at variance with other cited documents.

Documents referred to in this section are:

Resene One-Line Specifications and Product Data Manual

Resene - Putting Your Safety First

Health and Safety in Employment Act 1992 (Amended 1993)

Occupational Health and Safety Service (OSH) publication: Guidelines to the provision of facilities and general safety in the construction industry.

Occupational Health and Safety Service (OSH) publication: Guidelines for the management of lead-based paint.

AS/NZS 2311:2000 Guide to the painting of buildings

The Accoya Wood information Guide – November 2009

1.2 MANUFACTURER'S DOCUMENTS

Manufacturer's and supplier's documents relating to work in this section are:

The **Resene** One-Line Specifications and Product Data Manual.

Copies of the above **Resene** literature are available by phoning (NZ) 0800 **RESENE** (0800 737 363) or visiting www.Resene.co.nz

Requirements of the Contractor in the Completion of Defined Works

1.3 CONTROL SAMPLES

Prepare samples of the finished work, including the specified preparation if required by the architect or designer. Obtain written approval from the Principal's representative before proceeding.

Control samples may, after written approval, be used for comparative testing of dry film thicknesses of the complete coating systems.

1.4 QUALIFICATION

Painters to be experienced competent workers, familiar with the materials and the techniques specified and with the **Resene Paints** coating systems.

1.5 HEALTH AND SAFETY

Comply with the requirements of the Health and Safety in Employment Act 1992 (Amended 1993) and the Occupational Safety and Health Service (OSH) publication "Guidelines for the provision of facilities and general safety in the construction industry." If the elimination or isolation of potential hazards is not possible, then minimise hazards in this work on site by using the proper equipment and techniques as required by the **Resene** Putting Your Safety First handbook.

The Contractor must supply protective clothing and equipment, inform the

Principal's representative as well as the employees and others on site of the hazards and put in place procedures for dealing with emergencies.

1.6 **MATERIAL SAFETY DATA SHEETS**

Ensure all applicators have read the material safety data sheet for each product prior to use and comply with the required safety procedures. Material safety data sheets for all products can be obtained from **Resene** (In NZ: ring 0800 **RESENE**, or access from www.Resene.co.nz)

Performance

1.7 **RESENE PAINTS INSPECTION**

Permit representatives of **Resene Paints** to inspect the work in progress and to take samples of their products from site if requested.

1.8 **INSPECTION OF THE WORK**

Inspection of the whole of the work at each of the stages may be made. If inspection is required, agree on a programme that will facilitate such inspection, including notification when each part and stage of the work is ready for inspection prior to the work commencing.

2. **PRODUCTS**

Materials

2.1 **MATERIALS GENERALLY**

All coatings to be **Resene Paints** products (which are guaranteed for consistency and performance under ISO 9001 and APAS) prepared, mixed and applied as directed in the **Resene Paints** One-Line Specifications and Product Data Manual.

Paint containers not in use are to have their lids or stoppers firmly affixed to prevent evaporation and contamination from foreign bodies.

2.2 **COLOURS**

Refer to AS/NZS 2311:2000 "Guide to the painting of buildings" Section 1.9 Selection of Colour.

Differently coloured paints will vary in price, opacity and durability. Colours, need to be clearly identified before tendering to allow reasonable pricing that will consider both price and the number of coats needed to obtain opacity. Resene normally only specify two coats of colour but with certain colours, such as yellows and oranges, three coats may be needed. Your Resene representative will assist.

Resene colours do vary in durability. Check with your local Resene representative if this is an important requirement of the job. Before any work commences painters should verify, with Architects or specifying authority, that their paint matches a previously supplied standard card or panel. The gloss level could also be checked at this stage.

Large wall areas that require more than one container of paint per coat should have enough paint boxed together to complete the final coat. This will not apply if a single factory batch of paint, rather than shop tinted paint, is applied.

Please ensure that the colour purchased is the same as selected. Resene Paints Limited accepts no responsibility for the application of incorrect colours.

Darker colours over damp timber may result in faster than normal drying out and subsequent cracking. This may occur if timber is wet before painting or becomes wet for any reason at a later date. This should be taken into account when choosing colours.

Where applicable use Resene CoolColour™ in your topcoats

2.3 PAINT SYSTEMS

Apply the listed **Resene Paints** systems for the accompanying substrates as per the coatings' schedule.

2.4 THINNERS/ADDITIVES

Use only if and when expressly directed by **Resene Paints** for their particular product in a particular application.

2.5 ACCESSORIES

Contact your local **Resene ColorShop** for a full range of accessories and usage advice.

3. EXECUTION

Conditions

3.1 EXECUTION

To conform with required trade practice, which shall be deemed to include those methods, practices and techniques contained in AS/NZS 2311:2000 "Guide to the painting of buildings" (Section 6.7 Methods of Application) and the Occupational Safety and Health (OSH) publication: "Guidelines for the provision of facilities and general safety in the construction industry."

3.2 TREATED SURFACES

Where surfaces have been treated with curing agents, preservatives, fire retardants, or similar, check with the treatment manufacturer that coating materials are compatible with the treatment and do not inhibit its performance. If they are not compatible, obtain instructions from the treatment manufacturer before proceeding.

3.3 ANCILLARY SURFACES

The descriptions of areas to be coated given in schedules and elsewhere are of necessity simplified. Coat all ancillary exposed surfaces to match similar or adjacent materials or areas, except where a fair-faced natural finish is required or items are completely prefinished. In cases of doubt obtain written instructions from the Principal's representative before proceeding.

The Contractor must complete any work obviously necessary for the proper and entire completion of the contract even if not specifically covered by this specification without extra cost to the principal.

3.4 HARDWARE

Do not paint hinges or hardware that cannot be removed. Before commencing work carefully remove all hardware, fixtures and fittings, set aside where they cannot be damaged or misplaced and replace on completion.

3.5 PROTECTION

Supply, lay and fix all drop sheets, coverings and masking necessary to protect non-specified surfaces, adjoining, fixtures, fittings and spaces from paint drops, spots, spray and damage.

Application - Preparatory Work

3.6 SURFACE PREPARATION

Refer to the **Resene** One-Line Specifications and Product Data Manual for surface preparation sheets (or obtain them by calling (in NZ) 0800 **RESENE**, or from the **Resene** website www.Resene.co.nz listed in the materials systems schedule clauses. Carry out all the preparatory work required by them for each of the substrates.

3.7 SHARP EDGES

For timber refer to AS/NZS 2311:2000 "Guide to the painting of buildings" Section 3.2.2 Standard of Finish

Sand sharp edges on timber to a rounded edge to ensure adequate paint cover. Apply a stripe coat of each specified coating on steelwork sharp edges and welds, in addition to the specified coat, to achieve the correct film build and maximise the potential of the paint system. Sand or file sharp edges on other substrates to a rounded profile where practicable.

3.8 REMEDIAL WORK

If any substrate or surface cannot be brought up to a standard that will allow painting or clear finishing of the required standard then do not proceed until remedial work is carried out.

3.9 GAP FILLING

Refer to AS/NZS 2311:2000 "Guide to the painting of buildings" Section 7.3.3 Gap Filling

Thoroughly clean and prepare cracks, holes, indented and damaged surfaces for filling. A special primer is needed with many substrates, while on others the filler can interfere with the coating. Check carefully and only use fillers in strict accordance with the manufacturer's directions. Elastomeric sealants that can tolerate 30% movement should only be used where gaps exist between different substrates or for expansion joints. Do not use elastomeric sealants for general hole filling. Do not paint over elastomeric sealants because they are liable to bleed plasticiser and are much more flexible than the paint.

3.10 SEALANTS

Where sealants are required, check with the sealant manufacturer that coating materials are compatible with the sealant and do not inhibit its performance. If they are not compatible, obtain instructions from the sealant manufacturer before proceeding. Check that the sealants are compatible with the Accoya modified wood substrate.

3.11 OFF SITE WORK

Carry out all this work under cover in a suitable environment with suitable lighting. Store all items, both before and after coating, in a clean, dry area protected from the weather and mechanical damage, properly stacked and spaced to allow air circulation and to prevent sticking.

3.12 PRIMING WEATHERBOARDS

Refer to AS/NZS 2311:2000 "Guide to the painting of buildings" Section 3.2.8 Machine Priming of Timber & Section 3.2.10 Effect of Timber Species.

All hidden timber surfaces, especially end grains and hidden joined surfaces must be sealed with 2 coats of Resene Quick Dry Acrylic Primer Undercoat prior to fixing during the fabrication / construction stage. All back faces of weatherboards must also be primed as above.

3.13 CONCEALED METAL SURFACES

Apply primer/barrier coat to suit the coating system to all surfaces that will be concealed when incorporated into the building.

Application - Generally**3.14 PAINTING GENERALLY**

Comply with the **Resene Paints** One-Line Specifications and Product Data Sheets, product labels and the additional requirements of this work section.

All paints must be brought onto the job by the Contractor in their original sealed containers and be made available for inspection prior to application. Any materials supplied by the Contractor that differ from the material specified in this contract must be immediately removed from the job by the Contractor upon the Contractor being requested to do so.

No painting shall begin on any area until the approval of the Principal's representative is given.

3.15 MIXING

All paints to be thoroughly mixed. Lift any settled pigment and ensure the paint is homogenous.

3.16 ENVIRONMENT

Refer to AS/NZS 2311:2000 "Guide to the painting of buildings" Section 6.3 Climatic Conditions

Defer painting of exterior surfaces until weather conditions are favourable - warm dry days without frost or heavy dews. Avoid painting in direct sunlight any surfaces that absorb heat excessively.

Do not apply paint if the surface is less than 5°C above dew point, the relative humidity exceeds 85% (unless special precautions are taken to ensure that the surface is at least 5°C above the temperature of the surrounding air), there is moisture or ice visible on the substrate or if any of these conditions are likely to occur before the paint has dried.

As far as possible, apply paint in the temperature range 15°C to 25°C. If temperatures fall outside the range of 10°C and 35°C do not paint unless paints with the necessary temperature tolerances have been specified.

The Principal's representative may order painting to cease if, despite all conditions being met, there is a likelihood of frost. The Contractor may propose protective measures against frost and these measures will be subject to the approval of the Principal's representative.

3.17 SEQUENCE OF OPERATIONS

Painting work to generally follow the following sequence:

- Complete all surface preparation before commencing painting;
- Apply primers, sealers, stains, undercoats, paints and clear coatings in the sequences laid down by **Resene Paints**;
- Allow the full drying time between coats laid down by **Resene Paints**;
- Do not expose primers, undercoats and intermediate coats beyond a few days before applying the next coat. Refer to appropriate data sheets for recommended recoat times;
- Finish broad areas before painting trim;
- Ensure batch numbers of tins are matched for whole areas;
- Internally, paint ceilings before walls and walls before joinery, trim and other items.

3.18 APPLICATION

Refer to AS/NZS 2311:2000 "Guide to the painting of buildings" Section 6.7 Methods of Application

Select brush, roller, pad or spray and apply coatings to the requirements of **Resene Paints** to obtain a coating of the specified thickness, uniform gloss, surface finish and colour. Refer to the appropriate product data sheet and can label for appropriate application methods.

3.19 LIGHTLY SAND

Lightly sand all primers, sealers, undercoats and all intermediate coats to remove dust pick-up, protruding fibres and coarse particles. Complete by removing dust immediately before applying the next coat.

3.20 DEFECTIVE WORK

Immediately correct at own cost any defective work and recoat as required, following precisely the **Resene Paints** system being applied.

3.21 LOSS OR DAMAGE

The Contractor shall be responsible for any loss or damage that may be caused to the property of the Owner in the carrying out of this contract. The Contractor shall make good such loss or damage at the Contractor's own expense, to the satisfaction of the Owner.

3.22 EACH COAT

Each coat of paint and the completed paint system to have the following qualities and properties:

- Uniform finish, colour, texture, sheen and hiding power and the proper number of coats applied;
- No blemishes such as runs, sags, crinkling, fat edges, entrained paint skins, hairs, dust, bare or starved patches, cracks, brush marks, ladder marks and blistering;
- Proper covering of corners, crannies, thin edges, cracks, end grains and other difficult places of application.

Completion**3.23 CLEAN**

Clean all adjoining surfaces, glass and fittings of any paint contamination. Clean adjoining glass to a shining finish.

3.24 LEAVE

Leave the whole of this work uniform in gloss and colour, of correct thickness, free from all painting defects, clean and unmarked and to the standard required for all following trades.

3.25 REMOVE

Remove all drop sheets, coverings and masking to leave surrounding surfaces and areas clean, tidy and undamaged. Remove all debris, unused materials and elements from the site.

3.26 REPLACE

Replace all hardware without damage to it or the adjoining surface and leave hardware properly fitted and in working order.

4. SCHEDULES

Prepare surfaces and apply Resene paints in accordance with the attached paint system specifications.

1.0 NEW EXTERIOR ACCOYA WEATHERBOARDS - PAINTED

Condition: New factory primed Accoya modified timber.

Special Notes

Accoya® is based on an established chemical modification called "acetylation". For optimal paint system performance, like all conventional wood species, Accoya® requires application of a breathable paint system.

Particular attention needs to be given to properly sealing of the end grains during the construction process. The performance of paint systems over Accoya Timber is dependent on preventing water ingress into the timber.

Accoya Weatherboards / Cladding is factory primed with Resene True-Prime Beige, which also acts as a CoolColour™ Primer.

The Accoya and Resene recommendations for fabrication and painting must be followed at all times.

Newly primed Accoya must not be left to weather but top coated as soon as practicable, preferably within 6 weeks.

Tannin staining should not occur, unless the timber becomes saturated by water through either a design fault or structural failure that allows water to ingress.

PREPARATION & END GRAIN SPOT PRIMING

- 1.1 Ensure all surfaces are clean and free from contamination before painting, this includes surface dirt's, and chalk, mould, and other contaminate materials.
- 1.2 During installation/fixing, prime all cut bare faces / sides of the weatherboard with Resene Wood Primer with particular attention given to end grains, which require two (2) coats of the primer to help ensure a good seal against water ingress.
Data Sheet D40
- 1.3 All nail holes or areas of damaged timber **must** be filled with RepairCare Dry Flex SF epoxy filler as per the supplier's instructions. Spot prime these areas with Resene Quick Dry Acrylic Primer Undercoat.
Data Sheet D45

TOPCOAT PAINTING:

- 1.4 Apply a full coat of Resene Sonyx 101 at the spreading rate of 12 square metres per litre.
Data Sheet D30
- 1..5 Apply a second coat of Resene Sonyx 101 at the spreading rate of 12 square metres per litre.

Notes:

1. Where applicable use Resene CoolColour™ in your topcoats
2. For a low sheen finish use Resene Lumbersider

2.0 NEW EXTERIOR ACCOYA WEATHERBOARDS - STAINED

Condition: New Accoya modified timber.

Special Notes

Particular attention needs to be given to properly sealing of the end grains during the construction process. All hidden timber surfaces, especially end grains and back faces of the board must be sealed with 1 coat of stain prior to fixing. This is standard practice and should be followed.

Note 1: Having your 1st and or 2nd coat of stain applied by a factory application process will ensure all faces are coated and reduces the on-site labour and time.

The Accoya and Resene recommendations for fabrication and coating must be followed at all times.

PREPARATION ON THE GROUND

- 2.1 Ensure all surfaces are clean and free from contamination.
- 2.2 Any bare timber that has been left to weather longer than one month, should be thoroughly sanded back to a sound timber surface, inspected for mould & if necessary treated with Resene Moss & Mould Killer. **Data Sheet D80**

1st COAT - STAINING ON SITE or FACTORY APPLICATION*

To all sides of boards & especially cut end grains

- 2.4 Apply a full coat of Resene Waterborne Woodsman at 3-14 square metres per litre depending on porosity and texture of the surface. (*refer to Note 1) **Data Sheet D57a**

Note 2: *During construction apply 2 coats to end grains on cut edges.*

STAINING ONCE ASSEMBLED:

- 2.5 Ensure all surfaces are clean and free from contamination.
- 2.6 Apply a finishing coat of Resene Waterborne Woodsman taking care to avoid an excessive build of stain on top of the timber. The application rate for the finishing coat will generally be much less than that for the first.

Note 3: *Spreading rates for Woodsman depend on the roughness of the timber. Check the data sheet for details. Where applicable use Resene CoolColour™ in your topcoats*

Note 4: *Woodsman will require regular maintenance at about 18 monthly intervals.*

3.0 NEW EXTERIOR ACCOYA DECKING - STAINED

Condition: New Accoya modified timber.

Special Notes

Particular attention needs to be given to properly sealing of the end grains during the construction process. All hidden timber surfaces, especially end grains and back faces of the board must be sealed with 1 coat of stain prior to fixing. This is standard practice and should be followed.

Note 1: Having your 1st and or 2nd coat of stain applied by a factory application process helps to ensure all faces are coated and reduces the on-site labour and time.

The Accoya and Resene recommendations for fabrication and coating must be followed at all times.

PREPARATION FOR ON SITE STAINING:

- 3.1 Thoroughly wash down with a 16 % solution of Resene Timber & Deck Wash and water to remove all dirt, dust, grease, chalk, cobwebs and other contaminants. Rinse thoroughly with clean water. Allow to dry. **Data Sheet D813**

Special Note: *Take care to avoid skin contact with Timber & Deck Wash*

1st COAT - STAINING ON SITE or FACTORY APPLICATION*

To all sides of boards & especially cut end grains

- 3.2 Apply a full coat of Resene Woodsman Wood Oil Stain at 10-12 square metres per litre depending on porosity of the surface. Allow 24 hours dry. **Data Sheet D57**

Note 2: *During construction apply 2 coats to end grains on cut edges.*

- 3.3 Ensure timber is in sound condition, dry and free of dirt and mould.
- 3.4 Apply a finishing coat of Resene Woodsman Wood Oil Stain at the spreading rate of 12-14 square metres per litre taking care to avoid an excessive build of stain on top of the timber.

Note 3: *Regular maintenance application of decks is required and especially in high traffic areas.*

Warning: Trafficable areas coated with this product will not comply with the Building Act Clause D1.3.3 (d) with regard to slip resistance

4.0 NEW EXTERIOR WINDOW JOINERY

Condition: New Accoya pine timber.

Special Notes:

The performance of paint systems on exterior doors and windows is dependent on careful surface preparation, painting and correct construction methods, please refer to ACCOYA technical sheets (The Accoya Wood information Guide) for more details on this. Top and bottom surfaces must have the full coating system applied and is best done before hanging. Particular attention is needed to ensure there are proper flashings above doors and windows and that the sides of joinery are properly weatherproofed by use of adequate scribes or sealants. All edges of the joinery and future hidden surfaces should be primed or sealed before assembly with particular attention to priming or sealing the end grains properly. Attention is needed to ensure all sharp edges on joinery are sanded to a rounded profile before painting.

Newly primed timber should not be left to weather but top coated as soon as practicable. For any reason that there is any bare timber, that has been left to weather, then it should be allowed to dry and thoroughly sanded back to a sound timber surface, treated for mould (use a 20% solution of Resene Moss & Mould Killer and leave 48 hours) and then thoroughly washed clean (use 25% solution of Resene Paint Prep and Housewash in water). **Data Sheet D80 & D812** and allowed to dry again.

This specification assumes all glazing is in sound condition and all constriction has been carried out as per the ACCOYA Wood Information Guide. Please refer to the Disclaimer on the front page of this document before proceeding further.

PREPARATION FOR PAINTING – JOINERY STAGE:

- 4.1 Sand any sharp arrisses on timber profiles to a rounded corner.
- 4.2 Ensure all surfaces are clean and free from contamination before painting.
- 4.3 Apply a full coat of Resene Wood Primer at the spreading rate of 12 square metres per litre. Brush well into punched nail holes or other areas requiring filling.
Data Sheet D40
- 4.4 Fill all primed nail holes with Repair Care Dry Flex SF (take care to NOT over fill any holes) in accordance with manufacturer's instructions. Spot prime filler (after 24 hours curing) with Resene Quick Dry Acrylic Primer Undercoat, as below.
- 4.5 If glazing compounds are required, then do not use putty, instead use Dry Seal MP Glazing Compound in accordance with manufacturer's instructions. Spot prime filler (after 24 hours cure) with Resene Quick Dry Acrylic Primer Undercoat as below.

PAINTING/FINISHING:

- 4.6 Apply a full coat of Resene Quick Dry Acrylic Primer Undercoat at the spreading rate of 12 square metres per litre.
Data Sheet D45
- 4.7 Apply a full coat of Resene Enamacryl at the spreading rate of 12 square metres per litre.
Data Sheet D309
- 4.8 Apply a second coat of Resene Enamacryl at the spreading rate of 12 square metres per litre as above.

Surface texture and abnormal surface porosity will effect either the spreading rate or the coverage achieved. Allowance for this should be made in the quotation.

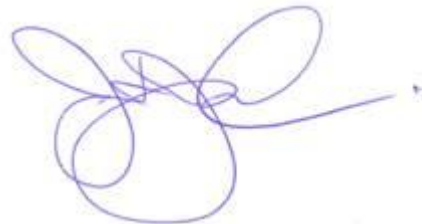
This specification should be read in conjunction with the manufacturers recommendations contained in the relevant technical data sheets.

Site Assistance

Resene Representatives will visit specific job sites as required to assist with advice on adequacy of preparation; special mixing requirements; standard of application etc. However this should not be regarded as 'supervision', but simply 'site assistance'.



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