

Monotek Finishing System - 9mm Monotek - Fully Meshed Cerano Finish - RMaxx RenderSpec

General

Building Code Compliance

If the project has a building consent then the following clauses apply.

B1 - Structure

This specification complies with the requirements as set out in B1 - Structure which requires buildings, building elements and sitework to withstand the combination of loads and physical conditions they are likely to experience during construction, alteration and throughout their lives. Loads and physical conditions include self-weight, temperature, water, earthquakes, snow, wind, fire.

B2 - Durability

This specification complies with the requirements as set out in B2 - Durability which must always be considered when demonstrating compliance with each of the clauses of the Building Code. It ensures that a building throughout its life will continue to satisfy the performance of the Building Code. It confirms the use of materials that will remain functional throughout the specified intended life of the building, but not less than 50, 15 or 5 years

This cladding system meets the expected durability of the NZBC of at least 15 years

E2 - External Moisture

This specification complies with the requirements as set out in E2 - External Moisture which demonstrates External roof, wall claddings and external openings will prevent external moisture from causing undue dampness or damage.

F2 - Hazardous building materials

This specification complies with the requirements as set out in F2 - Hazardous building materials which safeguards people from illness and injury from quantities of gas, liquid, radiation and solid particles caused by exposure to building materials

On Going Maintenance Instructions

Provide ongoing maintenance instructions required to meet the performance requirements of the NZBC.

Building Consent Authority Requirements

All the appropriate inspections are to be carried out by a BCA representative and that it complies with the NZBC requirements.

Documents

Abbreviations

The following abbreviations are used throughout this work section:

- BCA - Building Consent Authority
- LBP - Licensed Building Practitioner
- PPCS - Proprietary Plaster Cladding System
- MPNZA - Master Painters of New Zealand Association
- MSDS - Material Safety Data Sheet
- NZBC - New Zealand Building Code

Manufacturers Documents

Copies of the above relevant company documents referred to in this specification are available at;

Resene Construction Systems
Web: reseneconstruction.co.nz
Telephone: 0800 50 70 40

No Substitutions

Substitutions are not permitted to any specified Resene Construction Systems system. Materials and execution to Resene Construction Systems specification except where varied by this specification and supported by architectural detailing.

Qualifications

Use only LBP registered plasterers licensed to apply the Resene Construction Systems exterior render systems.

Documentation

Finish Sample

Submit one 300 mm x 300 mm sample of the selected texture finish and colour for approval on request by the main contractor or specifier. Obtain signature of acceptance on sample and return to the Registered Plasterer.

Maintenance Instructions

Provide Resene Construction Systems Maintenance Guide on or before practical completion of the contract for issuing to the building owner. Resene Construction Systems Maintenance Guide to be provided on request.

Producer Statement

If the project has a building consent then a producer statement shall be supplied by the plasterer in the form as required by the BCA.

Health and Safety

Refer to the requirements of the Health and Safety in Employment Act 2015 and Worksafe NZ: Guidelines for the provision of facilities and general safety in the construction industry. If the elimination or isolation of potential hazards and risks is not possible then minimise hazards and risks in this work on site by using the proper equipment and techniques as required in the MPNZA Painters hazard handbook. Supply protective clothing and equipment. Inform employees and others on site of the hazards and put into place procedures for dealing with emergencies. Obtain from Resene Construction Systems the Material Safety Data Sheets for each product. Keep sheets on site and comply with the required safety procedures. Confirmation at the start of the project as to whether a Site Specific Safety Plan is to be produced by the Registered Plasterer prior to works starting.

Warranty

Warrant this system under normal environmental and use conditions against failure. Resene Construction Systems system warranty.

Materials: by Resene Construction Systems - 15 Years Materials only

Execution: by Registered Plasterer - 5 Years Workmanship only

OnSite Assistance

Allow to inspect the whole of the work at each stage. Determine a programme for onsite assistance including notification when each part and stage of the work is ready for inspection prior to the work commencing. Permit representatives of Resene Construction Systems to inspect the work in progress and to take samples of their products from site if requested.

Components Used

MultiStop Bedding Compound

- Polymer-modified, cement based dry plaster mix. Supplied in 15kg bags.

Resene Construction Systems Mesh - Jointing

- 75mm Wide
- 5mm x 6mm Grid
- 160 gsm
- Supplied in 50 lineal metre rolls

Acrylbond Resin - 20kg

- Multi-purpose Resin supplied in 20kg containers

RMaxx Render

RCS RMaxx - is a high-yielding, cement-free dispersion based basecoat mortar. Thanks to its high elasticity, it can prevent the formation of cracks and is thus also ideal for use as renovation filler.

Mesh - Blue (1200mm wide)

- Alkali Resistant 6mm x 5mm Weave mesh supplied in 50m rolls

Torino Sands

- 100% acrylic, high-build texture coating. Supplied in 15 Litre pails

Cerano Deep Base

ROCKCOTE Cerano is a flexible acrylic based coating manufactured using 100% acrylic emulsions, quality graded quartz and other additives blended together to provide a natural coloured render finish over many substrates. ROCKCOTE Cerano provides a seamless and natural solid rendered look, with the flexibility and performance required for all solid masonry substrates and modern lightweight walling systems.

Resene Aquapel - Solventborne

- Resene Aquapel is a water repellent treatment formulated to help control efflorescence and give a long-term water-beading effect to deter water penetration.

Installation/Application

Check and Prepare Fibre Cement Sheet Substrates

Preparation based on new substrate installations.

Preliminary Checks

Fibre cement sheet – please refer to substrate manufacturer installation instructions.

Vermis proofing track (supplied and installed by the main contractor as per cement sheet manufacturer instructions). The vermin proofing track can be manufactured from uPVC, aluminium or stainless steel and must be punched with 3-5 mm holes or slots complying with NZBC Acceptable Solution E2/AS1, Paragraph 9.1.8.3 to provide ventilation openings of 1000 mm² per lineal metre.

Other cement sheet flashings may be required as determined by the substrate supplier.

Builder Supplied Flashings

Make sure all builder-supplied flashings are in place. The architectural drawings provide a list of possible flashings.

RCS Flashing Installation

Refer to the flashings as outlined within the Resene Construction Systems Specification

Control/Expansion Joint Setouts

For more information about control joints refer to the technical note on the Resene Construction webpage at the following link <https://reseneconstruction.co.nz/control-joints/>

The main contractor/substrate installer is responsible for all control joints, which must comply with the substrate supplier's specifications.

Clean Surface

When the substrate has been left for a period of time, dust and dirt may build up on the surface. This contamination must be removed prior to render application.

Masking

Before applying the render, masking must be applied to all joinery, pipes, roofs, and all areas likely to be marked by the render. Use drop cloths and ground covers to keep the working areas clean.

Colour selection

For more information about light reflectance values refer to the technical note on the Resene Construction webpage at the following link <https://reseneconstruction.co.nz/light-reflectance-values/>

Rebated fibre cement sheet

When coating rebated fibre cement sheet joints, rebated edges must occur on all opposing sheet joints.

Rockcote MultiStop Bedding and Mesh Jointing System

Surface Preparation

Ensure surface is clean, sound, dry and free from dust, dirt, grease, mould and lichen.

Application

Rebated joints in the cladding sheets are filled using Rockcote MultiStop Bedding Compound which is reinforced with a Rockcote Jointing Tape embedding into the MultiStop Bedding Compound ensuring the joint is level with surrounding sheet plane before leaving to dry overnight.

Plaster can be applied with a steel trowel or broad-knife at approximately 2mm thick. Apply plaster only when the temperature is between 5°C and 30°C and will be in that range for the 24 hours period following application.

Curing:

Render should be protected from hot drying winds and direct sunlight for the first 16 hours. Protect newly applied plaster from rain and water run off for the first 24 hours.

Resin/MultiStop Slurry Coat

Surface Preparation

Ensure surface is clean, sound, dry and free from dust, dirt, grease, mould and lichen.

Application

Mix a solution of Acrylbond and Rockcote MultiStop together and apply using a roller or brush. A high solids roller can also be used to ensure the solution is evenly distributed across the wall surface.

For pourous substrates (eg. brick, concrete) mix a 50:50 4L mix of Acrylbond/water and a 1 kg of MultiStop/AAC Adhesive/Hydroplast to the mix.

For other surfaces (including painted) ensure a 4 Litre of Acrylbond is mixed directly with 1 kg of MultiStop/AAC Adhesive/Hydroplast.

If you are unsure of the surface you are applying the slurry to, apply to a small section of wall and test for adhesion.

Resene Construction Systems RMaxx - Base Coat

Surface Preparation

When using RMAXX make sure the substrate is clean, sound, dry and free from dust, dirt, grease, mould and lichen. If necessary, water blast, sand or rasp the surface accordingly. For reworking old facades, substrates should be clean, dry, stable and free from loose particles. Always remove any film-forming release agents. Brush down thoroughly or water blast (and leave to dry afterwards) previously rendered surfaces. Highly-absorbent substrates are to be primed with RCS RenderPrep primer. Check tensile bond strength of critical substrates.

Application

RMAXX is ready for use after stirring. Apply RMAXX with a stainless steel trowel to a thickness of about 2-3mm. Dilute with max. 1 % clean water, if necessary. The reinforcement mesh (5x5 mm mesh size) must be completely embedded in the basecoat mortar and fully covered by it. Do not apply when substrate or ambient temperatures are below + 5 °C or in excessive heat above + 30°C. For reworking old facades, it may be necessary to use a 2layer buildup with reinforcement mesh. Allow the RMAXX to dry between layers.

Curing

In normal conditions (+ 20°C / 65 % relative humidity) allow approx. 24-48 hours for drying subject to the application thickness. During the setting and drying process, water evaporates from the material which is why it is significantly influenced by the ambient temperatures. Lower temperatures and/or higher humidity may extend the drying time.

Application of Resene Umbrella additive to assist the improvement of dry times can be added to the RMAXX prior to application.

Application

Resene Construction Systems Mesh (Standard Weave)

General

Measured and cut slightly longer than the height/length of the area to be covered.

Application of Fibreglass Mesh

Apply the pre-measured mesh from the top of the wall.

Press the fibreglass mesh into the render mix with a steel trowel starting at the centre and working outwards towards the sides, so that it is completely embedded with the render mix forced right through the mesh holes.

Ensure there are no wrinkles or trapped bubbles in the mesh and that it is fully embedded just below the surface of the render.

Do not embed the leading edge of mesh as this locates your next mesh layer.

Mesh must not be exposed but retained as close to the surface as possible.

Overlap mesh 100 mm with the adjacent drop of mesh, and trowel to embed together.

Ensure the fibreglass mesh covers all exposed areas of the substrate, including any recesses around the exterior joinery and internal corners.

Fibreglass Mesh must be bough to the outside edge of all Flashings.

Apply 450 x 150 mm strips of fibreglass mesh 'butterflies' diagonally at every corner of openings for window and door joinery, meter boxes etc.

After the render mix has cured, trim off excess length accurately against the flashing edge.

Resene Construction Systems RMaxx - Level Coat

Surface Preparation

When using RMAXX make sure the substrate is clean, sound, dry and free from dust, dirt, grease, mould and lichen. If necessary, water blast, sand or rasp the surface accordingly. For reworking old facades, substrates should be clean, dry, stable and free from loose particles. Always remove any film-forming release agents. Brush down thoroughly or water blast (and leave to dry afterwards) previously rendered surfaces. Highly-absorbent substrates are to be primed with RCS RenderPrep primer. Check tensile bond strength of critical substrates.

Application

RMAXX is ready for use after stirring. Apply RMAXX with a stainless steel trowel to a thickness of about 1 mm over the existing mesh coat of RMAXX. Dilute with max. 1 % clean water, if necessary. Allow the RMAXX to dry between layers. Once dry (see "Curing") or hardened, a finishing render from the Resene Construction Systems suitable for RMAXX can be applied, e. g. Rockcote Classico.

Wait at least 24-48 hours before applying classico and subsequent paint coats.

Curing

In normal conditions (+ 20°C / 65 % relative humidity) allow approx. 24-48 hours for drying subject to the application thickness. During the setting and drying process, water evaporates from the material which is why it is significantly influenced by the ambient temperatures. Lower temperatures and/or higher humidity may extend the drying time.

Application of Resene Umbrella additive to assist the improvement of dry times can be added to the RMAXX prior to application.

Rockcote Torino Sands (1 Coat)

Limitations

Check colour before use. Ensure same batch numbers are used on a single wall where possible. Should not be applied in temperatures below 5°C or above 35°C

Description:

Polymer Render/Torino is an acrylic based texture for use over mesh coats on a variety of substrates both interior and exterior. Polymer Render /Torino is an attractive, subtle, granular texture ideally suited to modern construction. Apply as 1 coat to achieve desired finish. Polymer Render /Torino is also used prior to applying an Acrylic Texture over ICF Block (Polyblock) and Fibre Cement Backer Boards/Sheets.

Application

Texture is applied not less than 1mm with a steel trowel to a flat finish then float using a circular action to an even texture over the following five minutes with a plastic float. Apply plaster only when the temperature is between 5°C and 30°C and will be in that range for the 24 hours period following application.

Coverage approximately 15m² per pail

Rockcote Cerano (2 Coats)

Limitations

Check colour before use

Ensure same batch numbers are used on a single wall where possible

Should not be applied in temperatures below 5°C or above 35°C

Not suitable for areas of continual damp or areas submerged in water

Surface Preparation:

ROCKCOTE Cerano must be applied over properly prepared substrates that are free of dirt, dust, grime and any other contaminants. Substrates must not contain more than 15% moisture prior to application. Do not apply if air and surface temperatures are below 5°C or above 35°C. Must be applied over the top of ROCKCOTE Polymer Render. When applied over Fibre Cement Sheet then RMaxx must be used.

Application

Check colour before use. Ensure same batch numbers are used on a single wall where possible. Mix to help reactivate and aerate contents. Apply evenly over the properly prepared substrate with a hawk and trowel. Ideally apply slightly thicker than the sand granules to achieve optimum results. Finish with a steel or Venetian trowel. Be sure to keep a wet edge with this product and plan your work to suit the product and weather conditions. If joining up to previous day's application, it is "good working practice" to start and finish on an external or internal corner. Keep sheltered from rain & moisture for 24 - 48 hrs after completion dependent on climatic conditions.

Coverage approximately 2-2.5m² per litre

Resene Aquapel - Solventborne (2 Coats)

Surface preparation

Ensure surface is clean and dry, free from dirt, dust and loose material, oil, grease and mould.

Waterblasting is the best exterior surface preparation method prior to painting.

Application

Stir thoroughly before use. Apply by brush, roller or low pressure spray. Recoat after six hours under normal conditions.

Dependent on surface porosity – typically 2.5 sq. metres per litre for concrete block, 8-11 sq. metres per litre for concrete (tilt, precast and plaster)

Water repellence will reduce over time. To maintain water repellence reapplication will be usually required every three years or when water repellence disappears. Reapplication will be required when water applied to the treated areas does not form beads.

Important:

This specification must be read in conjunction with the Resene Construction Systems technical drawings.

No alteration to the Resene Construction Systems RenderSpec® is permitted.

All Technical Data Sheets are available at <https://reseneconstruction.co.nz/technical-library/technical-data-sheets/>

All Safety Data Sheets are available at <https://reseneconstruction.co.nz/technical-library/safety-data-sheets/>