ROCKCOTE Otsumigaki Japanese Clay/Lime Finishes - Concrete Block RenderSpec

General

Description of Works/Specification Notes

ROCKCOTE Otsumigaki is a pr. e-mixed clay and lime plaster that can be coloured with oxides and provides a lustrous hard finish. Otsumigaki is manufactured from pure minerals and natural binders.
ROCKCOTE Otsumigaki is composed of hydrated lime, natural aggregates and additives.
ROCKCOTE Otsumigaki can be tinted with alkali resistant mineral pigments to achieve a range of natural colours and attractive patina effects.
When applied by a skilled 'Resene Construction Systems Artisan' ROCKCOTE Otsumigaki can be worked to a smooth polished look, but many different styles of finish can be achieved by using different trowels, floats, sponges and finishing techniques.

Properties

- Abrasive strength: Excellent
- Adhesion: Excellent
- Vapour Permeability: No vapour barrier formed
- VOC: N/A
- Colour: white (untinted)
- Packaging: 15 ltr pails
- Clean up: Water while product is wet
- Use by: 12 months from date of manufacture
- Storage: Cool, dry place
- Application Temperature: + 5 °C to + 30 °C
- Usual No Coats: 2
- Drying/Curing Time: 7 days
- Touch Dry: 24-48 hours
- Dry to Recoat: 30 minutes to one hour
- Film Build: Approximately Minimum 0.5mm – Maximum 1.5mm dry film build per coat
- Thinning: N/A
- Mean Vapour flow rate: 169g/m²d (ASTM E96/E96M-13 Water Method)
- Mean Resistance: 0.71MNs/g (ASTM E96/E96M-13 Water Method)
- Fire Group Classification: 1-S (Test in accordance with ISO 5660:2002)

Building Code Compliance

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

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 system meets the expected durability of the NZBC of at least 5 years

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 Clading 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.

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.

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

Components Used

Mesh - Blue (1200mm wide)

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

Coarse Mesh Render

- Supplied in 20kg Bags

MultiStop Bedding Compound

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

Rockcote RenderPrime

- Water based acrylic polymer dispersion. Supplied in 15 litre pails.

Otsumigaki Interior Plaster

ROCKCOTE Otsumigaki is an extremely versatile product that allows the skilled artisan to achieve a wide range of stunning decorative effects for interiors.

A polished earthen lime finish, ROCKCOTE Otsumigaki can be used in interior high traffic areas in residential settings such as entrances, stairwells and halls.

Meaning “polished and compressed “in Japanese, Otsumigaki draws inspiration from the lime and clay interior finishes used in traditional Japanese homes. The product is applied with a trowel in two tight coats and then polished with a Japanese Trowel andCarnauba Wax.

The polishing process compresses the lime and clay creating a soft, smooth, even feel across the surface and a pearly lustre finish.

The beauty of ROCKCOTE Otsumigaki lies in its ability to create textural depth in a smooth, flat surface. Create a dreamy feature wall in its natural colour mixed with oxides and lightly polished to give warmth, depth and lustre. ROCKCOTE Otsumigaki has a subtle elegance that gives walls life yet allows the surrounding elements in the space to speak for themselves.

ROCKCOTE Otsumigaki can be tinted to a wide variety of colours, however it is neither possible nor desirable to achieve an exact colour match due to the uniqueness and variations in a natural mineral product.

ROCKCOTE Otsumigaki can be used over traditional natural plasters such as ROCKCOTE Earthen Renders, as well as all common building substrates when prepared with a coat of ROCKCOTE EcoStyle Sealer/Undercoat with grit. It is not suitable for exteriors or wet areas.

USES:

- High traffic areas in residential settings such as entrances, stairways and halls where a more durable finish is required
- Feature walls
- Entire interiors
- Not suitable for exteriors or wet areas

Carnauba Wax (Liquid)

ROCKCOTE Liquid Carnauba Wax is a water based emulsion of carnauba wax that can be used over ROCKCOTE Venetian Plaster or ROCKCOTE Otsumigaki for a hard, durable, clear finish and a beautiful hard polish feel.

The 20L drum comes with a tap for easy decanting. It is already fully diluted and ready to use. It therefore does not require the addition of any water before use.

Application and Coverage

- Apply with a standard spray bottle and trowel into the surface until liquid disappears. An orbital sander with a buffing fabric can be used for larger walls, once the Liquid Carnauba Wax has been troweled in.
- Only one coat should be required initially. Additional coats may need to be added over time.
- Liquid Carnauba Wax should not be applied if temperatures are below 4°C or above 40°C.
- On a smooth finished surface of ROCKCOTE Ostumigaki, 1Lt of Carnauba Wax will finish approximately 10m2 of plaster.

Installation/Application

Check and Prepare Existing Unpainted Masonry / Brick / Stone

2.17.1. Preliminary Checks

Check all exposed surfaces of the substrate are straight, plumb and undamaged. Any loose substrate material identified must be removed and replaced.

Existing landscaping must be protected and / or removed in consultation with the project owner to allow accurate cladding installation in accordance with Rockcote technical details.

Fixing of a new exterior cladding can only be achieved if a) the existing brick/stone cladding is being removed / or b) if the substrate is solid filled masonry block.

Check with your local BCA as a consent and inspections may be required.

2.17.2. Wall Alignment

Using a straight edge, check joints are smooth and that the wall is flat and true. The Rockcote system installation is not designed to straighten deviations which exceed the specified Rockcote Render System thickness.

2.17.3. Weep Holes

Weep holes must be kept clear of Render unless an alternative solution is accepted by the BCA.

2.17.4. Existing Services / structure

General

All services must be back-flashed against the building wrap or against the existing weatherboards if they are remaining in place.

Plumbing

Plumbing services may need to be extend beyond the 'new' outside cladding line.

Electical

Electrical services may need to be extend beyond the 'new' outside cladding line. Electrical wiring must be wrapped with conduit.

Roofing

Face fixed fascia, roof and apron flashings may need to be extended / replaced to allow for extra cladding thickness. All external spouting must be removed prior to cladding installation.

2.17.5. Clean Surface

If you are applying the Rockcote system directly over exisiting substrate all dust, dirt and other contaminants must be removed prior to render applications.

Remove all moss and mould

Thoroughly clean down to remove all loosely adhered material. Treat areas of moss or mould infestation with Resene Moss & Mould Killer correctly diluted with clean water. Leave for up to 48 hours to achieve full kill. For heavy infestations further applications may be needed. Wash thoroughly with clean water to remove residues. For difficult areas carefully waterblast at 3000 psi to remove all dirt, chalk, moss and mould residue and any other contaminants. Allow the surface to dry out for at least 24 hours.

Remove powdery layers and efflorescence.

Remove any powdery layers, laitance or efflorescence by vigorous wire brushing or preferably waterblasting. Thoroughly degrease by scrubbing or brushing down with Resene Roof Wash and Paint Cleaner to remove all dirt, dust, grease, chalk, cobwebs and other contaminants. Rinse clean with copious amounts of clean water and test surface is degreased by wiping with clean cotton wool. Repeat process if necessary.

2.17.6. Improve adhesion

If you are applying the Rockcote system directly to the existing substrate the wall must be wetted down, or apply a solution of Rockcote Acrylbond and Water – ratio1 part Acrylbond : 4 parts water to minimise the suction of the substrate.

Allows the render to maintain moisture content for longer, providing greater working time. This process assists with the initial hydration / curing of the render application.

2.17.7.Colour selection

For further information on Light Reflectance Values (LRV) refer to TradeSpec™ Document 1.6 - Light Reflectance Values

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 bought 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.

Plaster Systems Coarse Mesh Render - Base Coat

Surface Preparation

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

Application

Plaster can be applied with a steel trowel, pump or broad-knife at approximately 3-5mm thick (3m2 per bag). 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.

Rockcote MultiStop Bedding Skim Coat

Surface Preparation

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

Mixing

Rockcote MultiStop is added to clean potable water whilst being stirred with a powered mechanical mixer until a trowel-able consistency is achieved. The mix is left to stand for 2 minutes and re-mixed, this will ensure all dry powder components are fully saturated and ready for application. Only mix as much product as can be reasonably used within 30mins. Once the product has started to set it must not be re-tempered. Dispose of setting material. Always wear a dust mask when mixing and handling this product.

Application

Plaster is applied not greater than 1mm with a steel trowel to a flat finish. A range of finishes can be achieved using sponges or steel trowels. 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. MultiStop can be sanded to remove any dags or minor imperfections from the trowelling.

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.

Rockcote RenderPrime

Application

Apply to trowelled plasters once dry (Dependent on surface porosity, typically 4-6m2 per litre). Apply one coat of Resene Renderprime over the plaster substrate by commercial grade knapsack sprayer, spray, long pile roller or brush and allow to dry. Evenly coat all surfaces to ensure uniform curing.

Rockcote Otsumigaki (2 Coats)

Rockcote Otsumigaki Finish Coat

Carnauba Wax (Liquid)

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/