Resene Construction Systems

CLASS 1

Technical Data Sheet / BPIR

Product name:

RMaxx Render

Product Line:

Plaster

Product description and its intended use:

RMAXX is a high-yielding, cement-free polymer dispersion-based basecoat plaster for many substrates. Thanks to its elasticity, it is highly resistant to cracking.

- Graded aggregates to assist in regulating the accurate minimum thickness
- Easy to apply
- Vapour permeable
- Weatherproof
- Solvent-free
- Waterbased
- Microfibre reinforced for added crack resistance
- Sustainable - contains new recyclables

RMAXX is a basecoat plaster for use on various substrates, including Aerated Concrete, Cement Sheeting and Masonry Substrates. This product can also be applied to prepared Graphex and EPS substrates once a mineral plaster such as Rockcote PM100 Quick render has been applied to level the surface.

RMAXX can also make good existing synthetic, mineral or silicate plaster finishes.

Expectation:

RMAXX will cure to form a strong and durable crack-resistant background that will accept Rockcote or Resene acrylic textures

Product identifier:

The product name with the production date is printed on the finished bucket.

Place of Manufacture:

Aotearoa New Zealand

Legal and Trading Information:

Legal and trading name of the manufacturer(s):	Rockcote Resene Limited T/A Resene Construction Systems
Address of the Manufacturer:	32-50 Vogel Street, Naenae, Lower Hutt
Website Address:	https://reseneconstruction.co.nz

Email Address: help@reseneconstruction.co.nz
Phone Number: 0800 507040
NZBN: 9429034745786

This product is not subject to a warning or ban under s26 of the Building Act.

Relevant Building Code clauses:

- Clause B1 - Structure - Performance B1.3.1, B1.3.2 and B1.3.4
- Clause B2 - Durability - Performance B2.3.1 (b) 15 years, B2.3.1 (c) 5 years and B2.3.2
- Clause E2 - External Moisture - Performance E2.3.2
- Clause F2 - Hazardous Building Materials - Performance F2.3.1

How the building product is expected to contribute to compliance:

This product is used and has been tested as part of a wider system.

B1 - This product has a low probability of rupturing, becoming unstable, losing equilibrium, or collapsing during construction or alteration and throughout its life. This product has a low probability of causing loss of amenity through undue deformation, vibratory response, degradation, or other physical characteristics throughout its life and during construction or alteration when the building is in use. This product has made allowance for the requirements of this functional requirement.

B2 - When installed in accordance with the system specifications and drawings, it will meet this performance requirement. Based on material properties and history of use, this product has been assessed to have a durability of at least 15 years when installed as part of a system. This product must be installed in accordance with the relevant specifications outlined in the design section of this document.

E2 - When installed in accordance with the system specifications and drawings, it will meet this performance requirement.

F2 - This product is safe when handled in accordance with its Technical and Safety DataSheet. Dust resulting from sanding and mixing compounds may be a respiratory irritant, and the use of suitable respiratory protection is required. This product meets the requirements set out in F2 and will not present a health hazard to people once installed.

Limitations on the use of the building product:

Requires over-coating with a protective coating.

Apply when the temperature is between 5°C and 30°C.

This product should not be applied over wood, PVC or metal-based products.

It should be noted that Resene Construction Systems products do not satisfy code requirements on their own but deliver code-compliant performance when used as part of a Resene Construction System's system and installed in accordance with the specific specifications.

These products must be handled carefully as a finishing material and kept dry during transportation and storage.

Do not apply less than 1.5 - 2mm per coat. Must be used in conjunction with Rockcote or

Resene Construction Systems

Resene Acrylic Texture coatings.

Design requirements that would support the use of the building product:

Specific applications, design and installation instructions are available for each system on our website. This outlines where this product should be installed as part of the wider system.

Typical Data at 25˚C and 50% Relative Humidity

Coverage:	3.0-4.0kg a m2 (approx 5-6m2 a bucket)
Substrates:	All substrates, existing paint/plaster
Abrasive strength:	Excellent
Adhesion:	Excellent
Vapour Permeability:	No vapour barrier formed
VOC:	N/A
Colour:	white
Packaging:	20kg pail/s
Clean up:	Water while the 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 Time:	24 hours week
Touch Dry:	4 hours
Dry to Recoat:	4 hours
Film Build:	Approximately 1.5mm dry film build per coat
Thinning:	Up to 2.5%
Mean Vapour flow rate:	70.1g/m^2d (ASTM E96/E96M-13 Water Method)
Mean Resistance:	1.73MNs/g (ASTM E96/E96M-13 Water Method)

Installation requirements:

Building work must be undertaken by competent and experienced tradespersons familiar with installing Resene Construction Systems systems.

Before applying the product, ensure the surface is clean, sound, dry and free from dust, dirt, grease, mould and lichen. Painted surfaces should have a slurry coat applied.

When using **RMAXX**, ensure the substrate is clean, sound, dry and free from dust, dirt, grease, mould and lichen. If necessary, waterblast, sand or rasp the surface accordingly. Substrates should be clean, dry, stable, and free from loose particles for reworking old facades. 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 the tensile bond strength of critical substrates.

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

hardened, an Acrylic finishing render from the Resene Construction Systems suitable for **RMAXX** can be applied, e.g., Rockcote Classico.

In normal conditions, (+ 20°C / 65 % relative humidity) allow approx. 24-48 hours for drying, subject to the application thickness. Water evaporates from the material during the setting and drying process, which is why the ambient temperatures significantly influence it. 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.

Maintenance, Environmental and Safety Requirements:

Wash equipment and spills as soon as possible with water.

Ensure washing water does not enter waterways. Wet waste should be disposed of in empty bags and, once dry, disposed of in trade waste.. The wet compound is alkaline, and prolonged skin contact should be avoided. Wear rubber gloves, dust masks and safety glasses when handling products.

Material Safety Data Sheets are available upon request or access directly from

https://reseneconstruction.co.nz/technical-library/safety-data-sheets/