*stoanz ltd* | **StoMiral**
**StoArmat Miral**

Plaster Systems for render
brick construction

# Sto the international brand
Selected with confidence worldwide.

**Growth on a solid foundation**

Since its establishment in 1835, Sto has undergone an astonishing course of development, from a simple German lime and cement works into one of the leading suppliers of facade insulation systems and manufacturer of high-quality exterior & interior plaster systems and coatings worldwide.
Sto AG has subsidiaries and distribution partners in over 50 countries around the globe. This presence provides Sto with a precise understanding of local climatic conditions, architectural styles, building practices, standards and tastes.

As the authorized partner of Sto for Australasia, **Stoanz Ltd** is committed to the Sto philosophy. Today having developed a full range of Sto plaster systems that have been tested and certified by BRANZ for the New Zealand market, Sto is recognized as a leader in the plaster facade and cladding market.


Head office Sto, Black Forrest, Germany.



**People and architecture, Sto provides the link**

Architecture plays an important role in our lives. It lends urban and rural landscapes character, and should ideally be embedded in an intact environment. For us, "Building with conscience" means enhancing functionality and aesthetics on a sustainable basis and creating an environment in which people feel at one with their surroundings.

Apart from researching, developing and marketing Sto products, systems and services, we also attach great importance to optimising the value added process for trades people, architects and building owners alike.

# Sto facades

International benchmark in plaster and facade systems.



StoArmat Miral.

**A universally accepted construction element**

Mankinds original use of fire and clay to create terracotta products has lead to the development of a diverse range of bricks and construction techniques. Today bricks are still produced in the original manner or manufactured by industrial kilns using the latest technology and chemical additives to enhance the quality and properties.
Using a minimum 40 mm cavity in New Zealand, render brick has proven to be a stable, durable and economical method of construction.

Researching the unique properties of render brick construction and employing over 120 technical staff with a complex range of modern analytical equipment, Sto pursues innovative technology that will meet ecologically acceptable standards. Using this approach Sto has developed a comprehensive range of facade plasters, finishing renders and cladding solutions to enable the specifiers to select an individual style to meet the project requirements.

**We respect the interests of people and nature at all times**

In order to define and implement its ecological targets, Sto has developed a system of environmental management conforming to international standards. This relates to the entire process chain - from the procurement of the raw product, to production, packaging and logistics.

Sto products make a clear contribution towards improving the quality of the environment. External wall insulation cladding systems are extremely energy efficient, cutting heating requirements and preventing the release of $CO_2$ emissions. These systems contribute to the effort Sto is making towards active environmental protection through reducing air pollution, heating and energy to conserve the global climate.
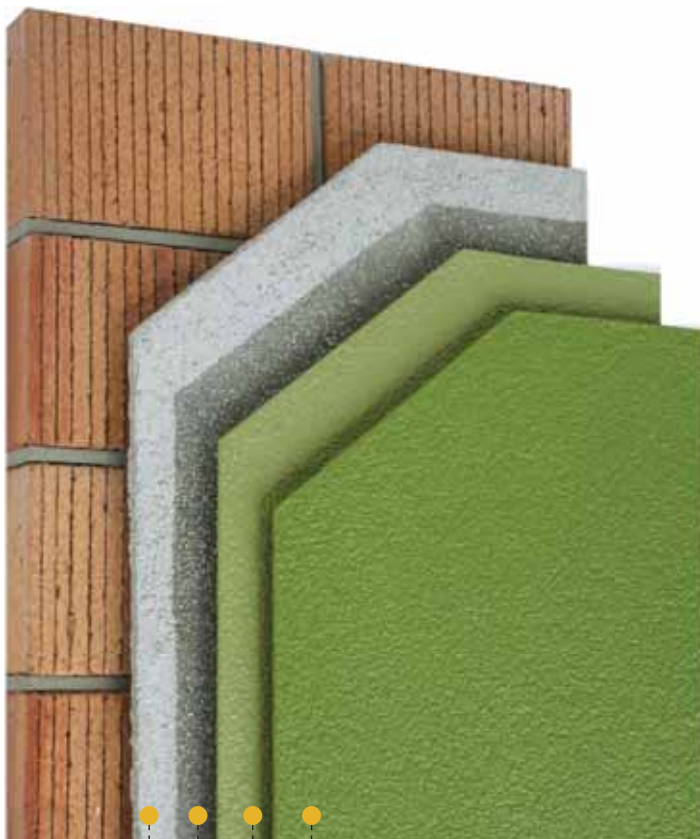


Sto with its environmental efforts is always a step ahead.

# StoMiral Plaster System

## Complement the look and protection of your home.

StoMiral is a BRANZ appraised plaster system that builds on the recognised stability of the render brick construction. It incorporates a lightweight mineral based basecoat to provide a solid levelled base with an even plane surface. It is then sealed with StoPlex W primer and finished with Stolit K finishing render and Sto facade paint to waterproof and complete the system. Using modern technology with enhanced and well engineered materials this plaster system provides a strong, durable, economical solution for render brick construction.

**Perfect interaction**

**1  Basecoat: LevelLite 6/8 mm**
Lightweight EPS bead mineral plaster with good build properties, water retention agents and machine application properties.

**2  Sealer: StoPlex W**
European manufactured aqueos, acrylate universal primer with siloxane additives. Good penetration capability, with adhesion improving, absorbency regulating and water repellent properties.

**3  Finishing render: Stolit K range**
European manufactured and certified, organically bound, strong, hard wearing, impact resistant, pre coloured finishing renders. (No cement)

**4  Coating:**
**StoColor Maxicryl** - matt facade paint
**StoLastic Color** - satin matt facade paint
European manufactured and certified durable facade paints available in a full range of colours.

BRANZ appraisal 515

15 years system warranty

masterspec 4282 SR - Masonry

**For more information and CAD details
please visit:
www.sto.co.nz
(for technical, click on: Building with Sto)**

# StoArmat Miral Plaster System

## A well engineered and aesthetical solution to protect your home.

StoArmat Miral with its proven and interlocking materials gives the client extra assurance providing the optimal protection and durability for all render brick constructions. The StoArmat RFP mesh reinforcement plaster incorporates micro fibres and light-weight fillers to provide strength and durability, completed with components Stolit finishing render and Sto facade paint. This European manufactured and certified plaster system is fracture and impact resistant, to provide a modern contemporary facade engineered to last the distance.

### Perfect interaction

**1  Basecoat: LevelLite 6/8 mm**
Lightweight EPS bead mineral plaster with good build properties, water retention agents and machine application properties.

**2  Reinforcement: StoArmat RFP**
European manufactured and certified, strong, malleable, impact resistant, white reinforcing plaster in a pail. Contains a calibration grain ensuring correct mesh coat thickness. (No cement)

**3  Plus: Sto European mesh**
Easy to install, meets the highest requirements for crack, stress and alkalinity resistance.

**4  Finishing render: Stolit range**
European manufactured and certified, organically bound, strong, hard wearing, impact resistant, pre coloured finishing renders. (No cement)

**5  Coating:**
**StoColor Maxicryl** - matt facade paint
**StoLastic Color** - satin matt facade paint
European manufactured and certified durable facade paints available in a full range of colours.

**StoSilco Color G** - mineral silicone resin
European manufactured and certified self cleaning mineral paint with a breathable structure, in a full range of colours. Not recommended in dark or strong tints.



BRANZ appraisal 515

15 years system warranty

masterspec  4282 SR - Masonry

# Stolit: Coloured finishing renders

## Provide your facade with optimum protection.

**Stolit: Organic finishing render**

Stolit organic finishing renders are manufactured in Europe and certified around the world.
They have been in successful use for over 50 years on a variety of different substrates. During this time they have undergone a continual process of optimisation.

The perfect combination of properties:
Durable, strong, hardwearing, impact resistant, malleable, weather resistant, colour stable and highly resistant to micro-organism. They are designed with good vapour permeability to allow the building to breathe while still repelling liquid water. All renders are easy to apply and can be tinted from the StoColor System or matched to the colour of your choice, using the Sto spectrometer.

**Stolit K 1.0 mm**

**Stolit K 1.5 mm**

Coloured self gauging float finishing renders.

**Stolit K 2.0 mm**

**Stolit K 3.0 mm**

Coloured self gauging float finishing renders.

**StoArmat Miral System only**

**Stolit MP**

Coloured fine float, sponge or light adobe finishing render.

**Stolit MP Natural**

Coloured fine finish float, sponge or light adobe sand speckled finishing render.

**Whichever plaster you choose, it will be part of the tested and approved system and will provide optimum protection and durability.**

# The perfect finish: Competence in colour

Give your facade the look it deserves.

The well-aimed use of colour in a manner which complements the architecture is subject to specific laws. The StoColor System provides a clear framework and a systematic approach to colour design based on subtly nuanced colour concepts of high aesthetic appeal.





**The StoColor System**

Is a structured system offering great variety in a unique planning instrument for the use of colour. A total of 800 different colours establish a sound foundation for creative and pioneering colour concepts. The StoColor System eschews colorimetric logic in favour of human perception of colour. It is based primarily on the colours yellow, orange, red, violet, blue and green. These six sections

are then mixed to form the 24 basic tones which correspond to the 24-part colour wheel. Each basic tone is assigned five colour rows which embody the principle of the same-colour triangle. This guarantees the StoColor System's high degree of functionality – designed in line with the aesthetic colour requirements in construction.







**StoColor Maxicryl**

European manufactured and certified, hard, durable, matt, acrylic facade paint for a natural look. Available in a full range of colours.
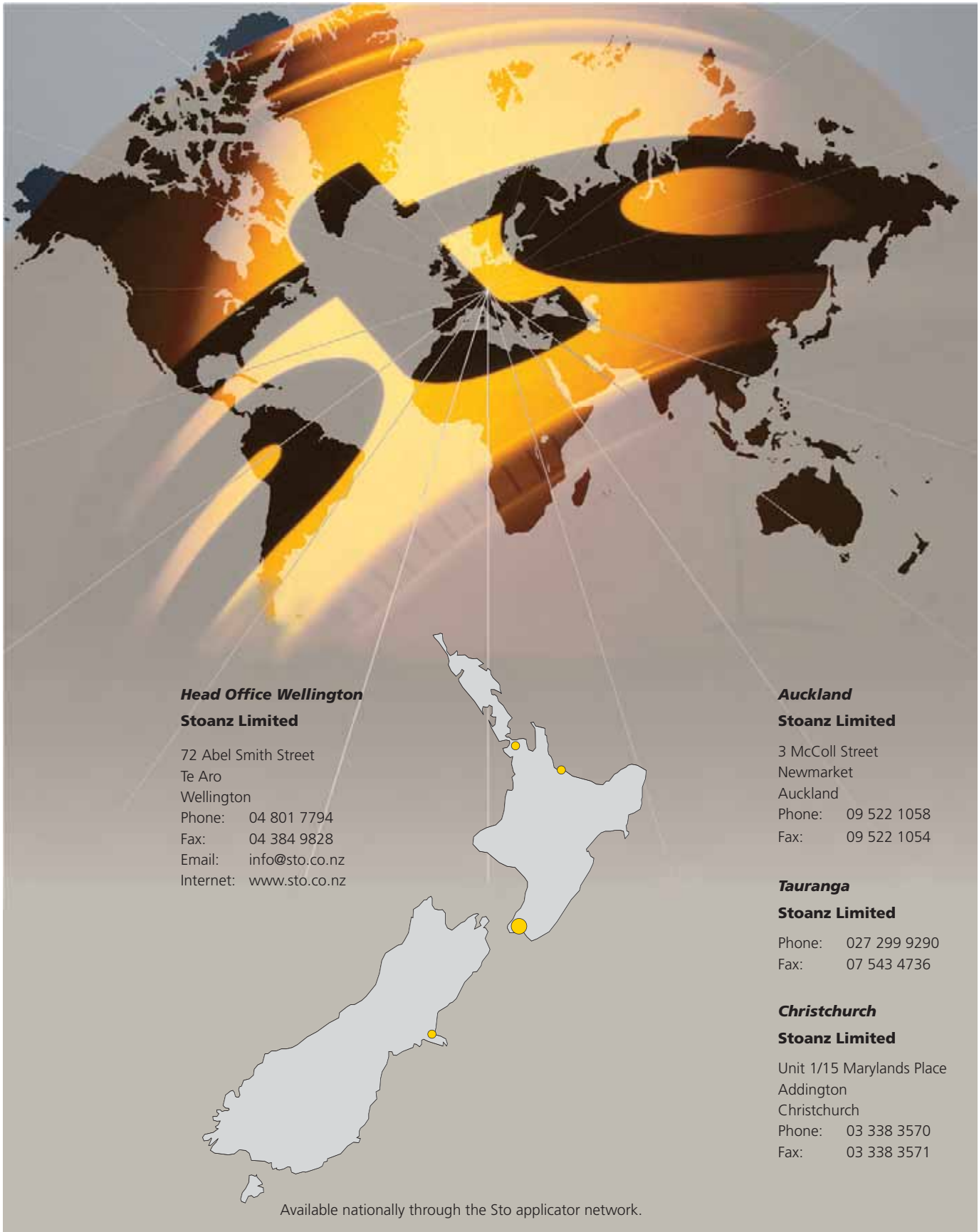
**StoLastic Color**

European manufactured and certified, elastic, durable, dirt resistant and vapour permeable satin matt facade paint for added durability. Available in a full range of colours.

**StoSilco Color G**

European manufactured and certified, self cleaning mineral silicone resin paint with a breathable structure in a full range of colours.

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Available nationally through the Sto applicator network.

Building with conscience.