

Powaflex Plaster System

ACRYLIC PLASTER SYSTEM

Powaflex Plaster System

ACRYLIC PLASTER SYSTEM

- Strong and Durable
- High Crack Resistance
- High Impact Resistance
- Excellent Flexibility
- Ultra-Weather Resistant
- Vapour Permeable

Specialized
CONSTRUCTION PRODUCTS



European
Technology,
manufactured
in New Zealand



Auckland Branch: 79 Porana Rd, Glenfield
P: + 64 9 414 4499 F: + 64 9 414 4489

Christchurch Branch: 178b Carlyle Rd, Sydenham
P: + 64 3 365 3202 F: + 64 3 365 3203

www.specialized.co.nz

Specialized
CONSTRUCTION PRODUCTS

©COPYRIGHT
SPECIALIZED
CONSTRUCTION
PRODUCTS
2013

About Powaflex:

Specialized Construction Products Ltd Powaflex Plaster System is a plaster system you can trust. One you can trust for quality, strength, flexibility and long-term performance.

Powaflex acrylic plaster is specially developed in NZ by Specialized Construction Products, Powaflex acrylic plaster is a fibre reinforced, organic base coat with increased impact strength and crack resistance that is designed for our unique construction methods and harsh environment.

Thanks to its European polymer technology Powaflex has incredible flexibility whilst retaining its strength to provide a durable exterior plaster that allows for increased façade movement and impact resistance.

Applied by hand or pump in conjunction with Specialized premium 160gsm fibreglass mesh and then covered with one of Specialized Construction Products Ltd acrylic finishing plasters the Powaflex system will give your home a highly flexible long lasting finish.

Specialized Construction Products Ltd has full specifications for the Powaflex Plaster System for application over new substrates or existing substrates as a repair specification.



Technical Data Sheet Specialized Powaflex

Product

Fibre-reinforced organically bound base coat forming the basis for Specialized Powaflex Acrylic Plaster System.

Branz tested.

Composition

Organic binders, aramid fibres, sands, additives

Properties

Fibre-reinforced acrylic plaster for outdoors. Water repellent and easy to apply.

Technical Data

Maximum grain size: 0 – 1,0 mm

Density: approx. 1.800 kg/m³

λ-value: approx. 0,7 W/mK

μ-value: approx. 100

Sd-value: 0,3m (at 3mm layer thickness)

Nominal thickness: 3mm

Consumption kg/m²: 4,0 – 5,0 kg/m²

Storage

Can be stored at least 6 months on a dry, cool and frost free place in the closed bag.

Quality Assurance

Internal quality assurance by our factory **laboratories**. External checks are carried out by **approved test institutes**

Delivery format

Bag – 20 kg, 48 bags per pallet = 1000 kg

Mixing Instructions

Powaflex should be mixed with a heavy duty electric drill with a high shear stirrer at approximately 600 r.p.m as it produces a much smoother mix and reduces the likelihood of unmixed lumps being left in the product. Concrete mixers or hand mixing are not suitable.

Add 4.5 litres of clean potable water to a clean bucket and then while stirring slowly add the 20kg bag of Powaflex. The product should be mixed for a minimum of 2 minutes and long enough to provide a smooth lump-free,

flowable blend. If foaming and streakiness appear on the top of the mixed product the Powaflex has been over watered and should not be placed on the substrate. More powdered material may be added immediately while the product is being mixed to achieve the proper consistency.

Any Powaflex that has hardened or stiffened in the mixing bucket must be discarded. The addition of more water to this product will NOT reconstitute it into a useable material.

Low temperatures and high humidity will delay the setting process whereas high temperatures and low humidity will accelerate the setting. Over acceleration can lead to shrinkage cracking in the finished product. It is therefore highly recommended that in middle of summer the product is applied when temperatures are at their coolest (i.e. in the early morning or evening) and that the coldest water possible is used to mix with the product.

Subsurface

The subsurface must be clean and free of debris, dirt and dust, efflorescence, grease, oils, curing agents, cleaning solutions, mould and algae or any other contaminants that may affect adhesion

Application

The areas around all penetrations should be completed first using Powaflex to bed soft flexible 160g/m² alkali resistant mesh. Once all penetrations and awkward areas have been completed all the flat areas of wall should be done using a 160g/m² alkali resistant hard mesh.

Drops of hard mesh should overlap by a minimum of 50mm. At the corners of all openings, a second layer of mesh 100 x 200mm (butterfly) must be applied and embedded in the mesh coat plaster on the diagonal to reduce the chance of any subsequent cracking at these high stress points.

Notes & General

Powaflex is to be used only as "Thin-Layer-System" with a nominal thickness of 3mm. In case of multiple layers, the thickness of all additional layers shall be max. 3mm. **Between each layer, a waiting time of at least 4-5 days is necessary.**

Regarding to an ambient temperature of +20°C and an air humidity of ≤ 70%. Unfavorable climate conditions can extend the curing time.

Air, material and subsurface temperatures have to be higher than +5°C during processing and setting. Protect facade against direct solar radiation, rain or strong wind (e.g. scaffolding protection net).

High temperatures during summer will seriously shorten the working and drying time of the product.

Safety Precautions

Protect eyes and skin, surrounding of the areas to be coated, especially glass, ceramic, clinker, natural stones, lacquer and metal. Wash any plaster-splatter with lots of water; never wait until the plaster is cured.

Clean tools with water immediately after use

Top Layers:

- Baunit GranoporTop
- Baunit Fine

Powaflex Plaster System - Finishing Options

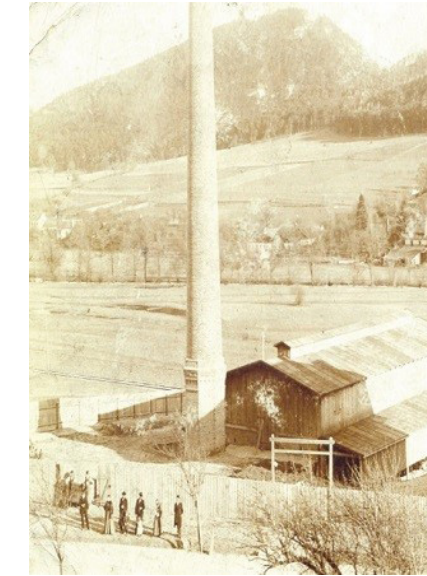
PRODUCTS BY BAUMIT – ONE OF EUROPE'S OLDEST AND LEADING PLASTER MANUFACTURERS.

Baunit

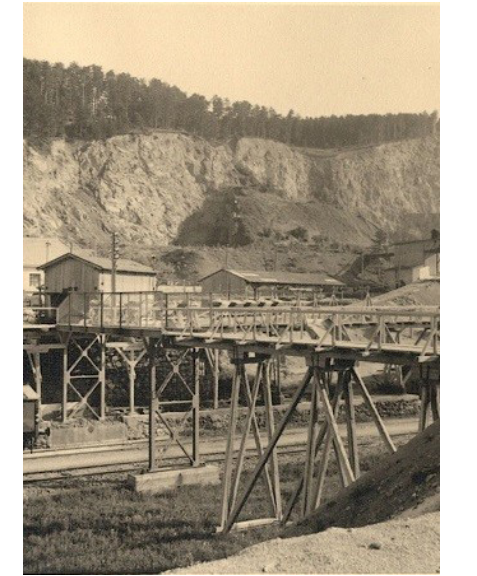
Tradition with a future



1810 First mention of a lime Kiln on the main road to Gutenstein, Austria.



1911 Registration of the Wopfin Stone and Lime Works in the Commercial register. At that time there were two lime kilns and an office building.



1920 Commissioning of the first mechanical crushing plant. Prior to this the limestone was crushed by hand.

What began in 1810 with a lime kiln was to develop into one of Europe's most successful building materials brands.

In 1988 the creation of the Baunit brand was sealed by means of a collaboration between two Austrian building materials companies.

Baunit GranoporTop

- Wide range of colors
- Economic
- Universal

Baunit GranoporTop

Ready-to-use, synthetic resin render for exterior use. Water vapour permeable and very resistant to water. Use with Baunit SpeedTop additive.

Ready-to-use, pasty, synthetic-resin thin-layer final coat with rubbed or grooved structure for interior and outdoor use. Baunit GranoporTop can be applied manually and by machine.

Available in – 1.5mm, 2.0mm and 3.0mm

Baunit GranoporFine

Ready-to-use, synthetic resin render for exterior use. Water vapour permeable and very resistant to water. Use with Baunit SpeedTop additive.

Ready-to-use, pasty, synthetic-resin thin-layer final coat with rubbed or grooved structure for interior and outdoor use. Baunit GranoporTop can be applied manually and by machine.

Available in – 1.0mm