

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