

Specialized Construction Products Powaflex

NZ_DA02913

Part A	19RX5025-20KG	Approvals	Powaflex Acrylic Plaster System - Branz tested.
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Product Overview

Powaflex acrylic plaster is a fibre reinforced, mesh base coat with increased impact strength and crack resistance. Powaflex has incredible flexibility whilst retaining its strength providing a durable exterior plaster that allows for increased façade movement and impact resistance.

Features And Benefits

- Fibre reinforced
- Highly flexible
- Can be applied up to 3mm in one coat
- Excellent shrinkage control.
- Crack resistant
- Excellent base coat for subsequent finishing


Uses And Typical Specifications

Uses Base mesh coat for use over concrete and masonry surfaces. Can also be used as part of a repair system for existing plaster builds. Powaflex must be top coated with an acrylic texture before the application of minimum two coats of 100% acrylic paint or an approved latex exterior paint system in accordance with Specialized Construction Products paint specifications.

Performance Guide

Weather	Excellent weather resistance when used as part of an approved Specialized Construction Products system.	Heat Resistance	Up to 60°C
Water	Resists rain and condensation when used as part of an approved Specialized Construction Products system.	Solvent	Solvent resistant
Abrasion	Resists abrasion when used as part of an approved Specialized Construction Products system.		

Typical Properties

V.O.C Content	<1 g/L	Full Cure (25C, 50% R.H)	48 Hours																								
Clean Up	Water - immediately after use.	Sizes	20kg																								
Application Method	 Trowel Other: Pump																										
Application Conditions	<table border="1"> <thead> <tr> <th colspan="2">Solids By Volume</th> <th>100</th> <th></th> </tr> <tr> <th></th> <th>Min</th> <th>Max</th> <th>Recommended</th> </tr> </thead> <tbody> <tr> <td>Wet Film Per Coat (microns)</td> <td>2000</td> <td>3000</td> <td></td> </tr> <tr> <td>Dry Film Per Coat (microns)</td> <td>2000</td> <td>3000</td> <td></td> </tr> <tr> <td>Recoat Time (min)</td> <td>8 Hours</td> <td>Indefinite</td> <td></td> </tr> <tr> <td>Theoretical Spread Rate (m²/L)</td> <td>0.5</td> <td>0.33</td> <td></td> </tr> </tbody> </table>			Solids By Volume		100			Min	Max	Recommended	Wet Film Per Coat (microns)	2000	3000		Dry Film Per Coat (microns)	2000	3000		Recoat Time (min)	8 Hours	Indefinite		Theoretical Spread Rate (m ² /L)	0.5	0.33	
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Typical Properties Notes	Coverage: Approximately 5-6m ² per 20kg bag. Dependent on application rate. Curing time of Powaflex will vary due to ambient temperature, relative humidity, surface temperature, surface porosity, application methods, and/or the thickness of the material. Although this plaster contains cement and will not fully cure for 28 days; finish coats can be applied after a minimum drying time of approximately 48 hours at 20°C.																										

Application Guide

Surface Preparation	<ul style="list-style-type: none"> The substrate to which PowaFlex is to be applied must be installed in strict accordance with the manufacture's specifications and recommended installation procedures. For concrete/masonry substrates the suppliers required curing time must be allowed after installation to ensure the joints in the substrate have completed cured, shrunk, and stabilized. All solid concrete substrates must be fully cured and dry. New concrete must be at least 21 days old prior to the application of any render product. <p>Surface imperfection such as blowholes, large cracks and spalling must be patched and levelled to the required tolerances and flatness with Specialized render materials before this product is applied. All nibs, protrusions and excess mortar on the surface of the bricks or irregularities in the slab must be ground off prior to rendering.</p> <p>All surfaces 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. Deeply contaminated substrates must be abraded to provide a clean sound surface. All loose or damaged material must be removed by water blasting, captive shot blasting, or mechanical wire brushing and then washed down before rendering commences.</p> <p>Painted or glossy surfaces such as power floated concrete must be specially primed, acid etched or mechanically abraded prior to the application of any render.</p> <p>All cracks that may be the subject to ongoing movement must be correctly repaired and reinforced.</p> <p>All very porous surfaces should be sealed with an appropriate paint sealer prior to the application of the plaster.</p>
Application Procedure And Equipment	<ul style="list-style-type: none"> MIXING: Add approximately 4.5 litres of clean water to a clean bucket and then while stirring slowly add the 20kg bag of PowaFlex. PowaFlex should be mixed with with a heavy duty electric drill powering a high shear stirrer at approximately 600 r.p.m. The product should be mixed for a minimum of 2 minutes or long enough to provide a smooth lump-free blend. The consistency should be such that the material holds its shape when a finger is run through the surface. Let the mix stand for 5 minutes and give it a quick re-stir before application and adjust the final consistency. <p>The first coat or base coat of plaster is usually trowel applied with a long 20" x 4" or 20" x 5" steel trowel. Start at the corner of the wall and apply plaster to the full height of the substrate about one and a half meters wide (the width of the mesh). Apply at 3mm thickness. Place a layer of mesh (length longer than the wall) against the wet plaster at the top of the wall. Wipe the mesh very lightly at first into the plaster, starting from the middle and working out. Make sure there are no bubbles or wrinkles in the mesh. Once the mesh is flat against the plaster, apply pressure with the trowel and embed the mesh just below the surface. The mesh pattern should be 'grinning' through, but the mesh itself must be completely covered with plaster. Repeat the process and ensure each adjacent drop of mesh overlaps its predecessor by at least 30mm. At the corners of all openings, apply a second layer of mesh 100 x 200mm (butterfly) embedded on the diagonal. This greatly reduces the chance of any subsequent cracking at this high stress points.</p> <p>An acrylic texture top layer should be applied over Powaflex:Baumit GranoporTop or BaumitFine.</p> <p>For full system details refer to the Specialized installation guide.</p>

Health And Safety

MSDS Number	DLX003964	Using Safety Precautions	For detailed information refer to product label and the current Material Safety Data Sheet available through Specialized Construction Products Sales and Customer Service Offices.
MSDS Link	https://go.lupinsys.com/duluxgroup/harms/pm/c9b510d9576d04ec92f5c555dd3f446d-published/attachment/nz-sds.pdf		
Health Effects	Causes severe skin burns and eye damage. May cause respiratory irritation.	Protective Equipment	Wear safety shoes, overalls, gloves, safety glasses, dust mask.
Storage	Keep out of reach of children. Store for no longer than 6 in a dry, well-ventilated area and off the floor. Product must be protected from the weather and from mechanical damage.Store away from foodstuffs.	Disposal	Do not contaminate storm-water with product or product washings. Do not pour product down the drain. Unwanted product should be brushed out on newspaper, allowed to dry and then disposed of via domestic waste collection. Check with your local council first.
Handling	Avoid eye and skin contact. Avoid inhalation of dust.		
In the case of emergency, please call 0800 734 607			

Precautions And Limitations

Ensure all surface preparation instruction are followed.

All freshly applied material must be weather protected for a minimum of 24 hours after application. Exposure of applied product to rain, snow, dew, or other inclement weather conditions, direct hard sunlight or sources of heat while it is curing may have a detrimental effect on the finish.

- DO NOT over-water, over mix, or remix aged PowaFlex with additional water.
- DO NOT mix more PowaFlex than you can use in 45 minutes.
- DO NOT use PowaFlex that has been mixed for more than one hour.
- DO NOT apply PowaFlex to wooden surfaces.
- DO NOT apply PowaFlex over wet, frozen or frost affected surfaces.
- DO NOT apply PowaFlex where it will be subjected to permanent immersion or where ponding will occur.
- DO NOT reactivate PowaFlex with water once it has begun to set.
- DO NOT wet the substrate prior to the application of PowaFlex.
- DO NOT apply PowaFlex unless the substrate has been properly cleaned, primed and prepared

Transport And Storage

Pack A	19RX5025	Shipment Name	Not dangerous goods. No special transport requirements.
Size 20kg	Weight 20kg		
Flash Point	N/A	UN Number	N/A
Dangerous Goods Class	N/A	Package Group	N/A

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