

SMOOTH & PATCH SPECIAL (CANAL)

Flexible Polymer Modified Cementitious Waterproof Plaster

Smooth & Patch Special is a two-component, polymer modified, cementitious waterproofing plaster system designed to line, waterproof, repair and resurface concrete and masonry substrates associated with water retaining structures.

The cured product is an effective barrier to waterborne salts and atmospheric gases and provides a hard wearing, seamless, waterproof membrane. The mixed product can be easily applied manually or by pump spray methods and trowelled to finish to produce a smooth, long lasting watertight finish.

UNIQUE PRODUCT BENEFITS

- Highly flexible cured finish
- Quick curing and strength development
- 2 x stronger than conventional plaster
- Unaffected by water immersion once cured
- Porosity equivalent to high strength dense concrete
- High chemical resistance: corrosion rates are a fifth of that of conventional plaster
- High resistance to carbon dioxide and chloride ion diffusion
- Breathable to water vapour
- Water repellent
- Non-toxic, potable water safe
- Excellent adhesion: bonds to both porous and non-porous surfaces
- Resistant to brackish water
- Resists both positive and negative water pressure

TECHNICAL DETAILS

Appearance	Cement grey mortar
Mix Ratio	5 L / 25 kg as supplied
Yield	15 L
Working Time	20 to 30 min.
Coverage	5 m ² @ 3 mm
Water Resistance	7 Bar
Curing Rate	1 mm / hour
Full Cure	24 hrs
Compressive Strength	25 to 30 MPa (28 day)
Bond Strength	> 1.5 MPa

PACKAGING

Smooth & Patch Special is supplied as 30 kg kits consisting of a 25 kg powder and 5 L liquid polymer.

APPLICATIONS:

- Waterproof lining for water retaining structures
- Canals, dam walls, reservoirs and tanks
- Sea water channels and marine walkways
- Waterproof barrier for construction foundations
- Protection of concrete surfaces from carbonation and chloride ion attack
- Resurface, repair and even out variations in concrete surfaces obtaining a smooth finish

Leading manufacturers of specialist epoxy and polyurethane flooring systems, specialised construction and corrosion protection products.

Distribution facilities nationwide

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SURFACE PREPARATION

Surface preparation is of key importance. Remove all grease, oil, dust, residual curing compound, mould release agent and any other foreign material or contaminants. Laitance should be removed preferably with light sweep blasting or high pressure jetting. Mechanical wire brushing is acceptable for smaller areas. Spalled concrete should be cut back to sound concrete and made good with a stiff mixture of **Smooth & Patch Special** (mix 2/3 of the liquid provided with the powder component and add additional liquid if necessary to produce a stiff workable paste).

PRIMING

Priming is not necessary. Dampen the surface with clean water before application. Do not apply to dry concrete as this will affect adhesion.

MIXING

Decant the supplied liquid into a suitable mixing vessel and then slowly add the powder while mixing with a mortar mixer with a suitable paddle until a smooth, lump free paste consistency is achieved. Once mixed, use the entire mixture in one application. Do not try to reconstitute a mixture by adding additional liquid or water as this may lead to poor results. For spray application, multiple kits may be mixed at once depending on the output of the machine used.

INSTALLATION:

For smaller areas, the product may be placed and finished by hand using a trowel. Spraying methods may be employed on larger projects with a suitable concrete pump with spray fitting attached. The ideal spray consistency may require a small addition of clean water, depending on the type of spray plastering machine used. When spray plastering allow a few minutes to set up and then smooth trowel to a fine dense finish. Manual plastering is done in much the same manner as conventional plastering. A thickness of 3 mm is all that is required to resurface any irregularities in the substrate. Allow to dry naturally – wetting down is not required but may be employed on hot days or very dry weather.

SPECIFICATION

All exposed concrete surfaces are to be repaired and plastered with **Smooth & Patch Special**, a two-component reactive cementitious polymer modified composite. The material shall be mixed and applied fully in accordance with the manufacturer's instructions. The cured plaster finish will have strength in excess of 25 MPa, be resistant to 7 bar water pressure and provide a waterproof lining for the substrate.

HEALTH AND SAFETY

Smooth & Patch Special is cement-based and should be treated with care. Avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately by washing with water.

Please read Safety Data Sheet and specific health and safety data for this product provided in compliance with the requirements of OHSA No.85 of 1993. The finished system is not hazardous to health or the environment.

WARRANTY

Technical Finishes products are manufactured under high quality standards and are warranted against defective materials and are sold subject to standard Terms and Conditions of Sale, copies of which can be obtained upon request. Technical Finishes deals with approved applicators and carry a back to back warranty with these clients. Technical Finishes cannot be held responsible for the workmanship in surface preparation and application of our products, it is understood that the approved contractor will guarantee such workmanship and application. It is vital that the application is done in accordance to our specification.

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