

TECHFIN SMOOTH & PATCH SPECIAL
FLEXIBLE TWO COMPONENT CEMENTITIOUS POLYMER MODIFIED
WATERPROOFING PLASTER

DESCRIPTION

SMOOTH 'n PATCH SPECIAL is a two component, acrylic polymer modified, cementitious waterproofing plaster system. SMOOTH 'n PATCH SPECIAL is designed to waterproof and resurface concrete, masonry and plaster rehabilitation among other construction materials. SMOOTH 'n PATCH SPECIAL requires only on site mixing and can be easily applied by pump spray methods and trowelled off to produce a smooth, even and high density waterproof finish.

SMOOTH & PATCH SPECIAL provides an effective barrier to waterborne salts and atmospheric gases. SMOOTH & PATCH SPECIAL provides a hard wearing, seamless, waterproof membrane to many areas of construction application.

- Unaffected by complete water immersion once fully cured.
- Porosity is 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 and water repellent keeping substrate dry.
- Non-toxic, suitable for contact with potable water.
- Excellent adhesion: bonds to both porous and non-porous surfaces.
- Flexible.
- Waterproof-resists both positive and negative water pressure.

APPLICATIONS

- To reface and even out variations in concrete surfaces obtaining a smooth finish.
- As a waterproof lining for water retaining structures e.g.: canals, dam walls, reservoirs and tanks.
- To provide a protective and waterproof lining to foundations.
- To provide protection to concrete surfaces from carbonation and chloride ion attack.
- For waterproofing and protection against brackish water.
- For coating sea water channels and marine walkways.

ADVANTAGES

- Strength development is more than double than that of conventional plaster

PACKAGING

SMOOTH & PATCH SPECIAL is available in 30kg kits consistent of a 25kg powder and 5L Liquid polymer.

COMPOSTION

SMOOTH & PATCH SPECIAL is composed of specially selected cements, silica sand and proprietary additives along with selected acrylic co-polymers and wetting agents.

TECHNICAL DETAILS

Coverage: 5m² at 3mm
Yield: 30Kg kit yields 15L
Strength: 25-30 MPa
Water resistance: 7 Bar
Curing Rate:

Application Thickness	Time
3mm	3-6 hours
3-6mm	6-10 hours
Full hard cure	24 hours

DIRECTIONS

- Surface preparation is of key importance. Remove all grease, oil, dust, residual curing compound, mould release agent and any other foreign material / contaminant that may impair adhesion.
- 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).
- Damping down the surface with water before application is preferable. Do not apply to dry concrete.
- 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 plaster.
- 3mm 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.

MIXING

- SMOOTH & PATCH SPECIAL is supplied in premeasured kits/ units and should be mixed on site one bag per bottle in clean containers. Decant the polymer liquid into the desired mixing vessel and then slowly add the powder component while mixing with a drill on slow speed fitted with a suitable paddle.
- Mix for a total time necessary to obtain a smooth, homogenous paste like consistency free of lumps and free liquid. 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.

SPECIFICATION CLAUSE

All exposed concrete surfaces are to be repaired and plastered with SMOOTH & PATCH SPECIAL, a two component reactive cementitious acrylic 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.

SAFETY

SMOOTH 'n PATCH SPECIAL is cementitious and should be treated with care. Avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately with washing with water.

STORAGE

Store under cover, out of direct sunlight and protect from extreme temperature and humidity. Failure to comply with the recommended storage conditions will result in premature deterioration of the product and packaging.