



STERLING TechnoCrete® P7

Single Component Acrylic Polymer for Cement Based Waterproof & Protective Composite Coating Membrane

Description:

TechnoCrete® P7 is an acrylic polymer based economical elastomeric waterproofing system for protecting concrete & masonry surfaces. In conjunction with cement TechnoCrete® P7 provides a seamless waterproof coating to concrete and masonry surfaces. It can be used as a waterproof or protective coating.

Application:

- Concrete structures like sunken portion, toilets, balcony, basement, chajjahs, terrace, concrete repairs.
- Below sloping screed or waterproof plaster on Roofs, terraces and balconies as a sandwich layer.
- Pools and fountains.
- Reservoirs and channels.

Features & Benefits:

- A tough, hard wearing, breathable, impermeable waterproofing system for residential, industrial, housing and commercial buildings.
- Can be applied in uniform thickness to horizontal and vertical surfaces.
- Reduces or prevents salt penetration into concrete.
- High ultra violet resistance.
- Highly durable & Economical system.
- Non - toxic, non-flammable and user friendly.
- Excellent adhesion to concrete and masonry surfaces.
- Protects concrete and mortar from natural elements such as wind, rain, sunlight.
- Breathable - allows inside water vapour to escape.

Technical Properties:

Appearance before mixing with cement	Milky white coloured liquid
Appearance when mixed with cement	Grey
Specific gravity	1.03 +/- 0.02
pH value	>7
Bond strength - 14 days as per ASTM C882-87	21 kg/cm ²
Area of application	Waterproofing and repairs for cementitious substrate.
Coverage: For waterproofing coating Two coat (with glass fibre mesh)	1.5 m ² - 1.6 m ² / kg
For waterproofing coating Two coat (without glass fibre mesh)	1.75 m ² - 1.85 m ² / kg
Waterproofing thickness dft	1mm to 1.20mm - two coats
Mix ratio for waterproofing coating	1: 2 (TechnoCrete®P7 : cement)
Dosage for PMM.	15-20% by weight of cement
Application temperature	Above 10°C to 45°C
Flexural strength	20 kg/cm ² @ 10% dosage 21 kg/cm ² @ 15% dosage

Mixing Ratio			
Description	TechnoCrete®P7	Slurry	TechnoCrete® P7 brush Topping
	Single coat (1:2)(TechnoCrete®P7 : cement)	Two coat	1 sq.m. of 1.5 thickness
	Qty in kg	Qty in kg	Qty in kg
TechnoCrete®P7	0.25	0.375	0.65
Cement	0.50	0.750	1.30
Fine silica sand			1.30

Method of Application:

Surface preparation

Prior to application of TechnoCrete®P7, ensure to clean the substrate which should be free from all the dust, foreign particles, loose aggregate and oil grease etc. This can be done with the help of scarifying, grinding, water jetting and sand blasting etc. The surface should be wetted, well prior to application, thoroughly with water to get SSD condition. All the depression or pin holes /pot holes to be repaired using TechnoCrete®P7 modified mortar in mixing ratio of (1 kg cement: 1.50 kg silica sand: 0.50 kg of TechnoCrete®P7)

For Waterproofing Coating application

Mix Cement with TechnoCrete®P7 in ratio of 2:1 (2 parts of OPC: 1 part TechnoCrete®P7) by weight, (always add powder to liquid for all applications). The mix should be stirred thoroughly until smooth homogeneous paste is obtained. Apply first coat over SSD condition substrate. Apply and unroll fibre mesh evenly on the wet coating before it dries out on larger areas. Using a nylon brush, apply 2nd coat of TechnoCrete®P7 coating over the fiber mesh so as to cover the fabric, allow 5-6 hours of air drying before application of 3rd coat of TechnoCrete®P7 slurry coating over the surface if required. Provide polymer modified protective plaster of 15-20 mm thick over the coating to ensure safety from mechanical damage.

For Repair Modified mortar Application:

All the repair mortar modified with TechnoCrete® P7 shall be used for all renovation works in concrete substrate. Add 10-15% of TechnoCrete®P7 by weight of cement to the prepared mix of cement and sand mortar in ratio of 1:3 and repair all the patch work as per the suitability of the job.

Curing:

Moist curing should be done for a period of 3 days by spraying / sprinkling of potable water after about 6 hours from the time of application of the final coat. After moist curing the coating shall be allowed to dry before submersion in water. Do not allow the rapid drying of the coating by covering the coating with help of polythene sheet in case of high humidity and windy condition.

Packaging:

TechnoCrete® P7 is supplied in 1,5,10,20,50 & 225 Kg plastic container.

Precaution & Limitations:

TechnoCrete®P7 should not be used in isolation of cement. Technocrete® P7 shall be applied to the substrate temp above 10°C to below 40°C. Ensure to provide a protective plaster over the final coat to avoid mechanical damage.

Health and Safety instructions:

TechnoCrete®P7 is non-toxic. Gloves and goggles should be worn. Any splashes to the skin or eyes should be washed off with clean water. In the event of prolonged irritation, medical advice should be sought. Should use a dust mask while handling the powder.

Additional Information: Techno Builders Solutions® By Sterling Technotrade India Pvt.Ltd ® range of associated products includes high performance concrete Admixtures, Adhesives, Protective Coatings, Concrete Repairs, Industrial Flooring, Grouts & Anchors, Joint Sealants, Surface Treatments, curing compounds, repair mortars, release agents, Grinding Aids & Waterproofing.

*Separate datasheet are available on these products

Disclaimer: The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used and the on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of our products.

Edition: 08/2017/001 Identification No: PD-032
This datasheet supersedes all previous versions.

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