

Polyflex T

Flexible, Waterproofing and protective slurry mortar

CHARACTERISTICS

- ▶ Good adhesion to sound prepared substrates
- ▶ Good abrasion resistance
- ▶ Easy and fast mixing and application
- ▶ Can be mixed to slurry or trowelable consistency
- ▶ Non – toxic, therefore suitable for use in potable water applications
- ▶ Improves the concrete/masonry appearance
- ▶ Excellent freeze/thaw resistance
- ▶ Good protection against water penetration yet allows the substrate to breathe
- ▶ Good protection by forming an anti-carbonation film. (2 mm coating gives an anti-carbonation cover equivalent to 6 inches of concrete)



DESCRIPTION

Polyflex T is a superior grade, two - component, polymer modified cementitious waterproofing and protective slurry mortar for concrete. It is durable, flexible and has a good resistance to tolerate fine cracks. It is also suitable in both interior and exterior applications.

FIELDS OF APPLICATION

- Can be used on horizontal surfaces where light foot traffic is expected. (Balconies)
- Interior and exterior waterproofing of basements.
- Sealing of hairline cracks in concrete structures not subject to surface movement.
- Can be used in waterproofing of drinking water tanks, reservoirs and clear wells.
- Can be used for internal and external waterproofing and damp proofing concrete, mortar block work and brickwork.
- Can be used for protection of concrete structures against the deleterious effects of deicing salts and freeze/thaw cycles.



APPLICATION INSTRUCTIONS

Surface Preparation

All the substrates must be dry and free of dust, dirt, moss, oil, grease and loose particles. All surfaces must be as true and flat as possible. This can be achieved by wire brushing or grit blasting. Unsound surfaces are to be removed and repaired with a suitable repair mortar. There shall be no standing water at the time of application. It is necessary to stop water ingress prior to application of Polyflex T.

Mixing

Polyflex T is supplied in two pre-measured parts which just requires on site mixing. Do not mix more material than that can be used within the pot life. Part mixing can be carried out by mixing 4 volumes of powder with 1 volume of liquid for Slurry consistency and 4.5 volumes of powder and 1 volume of liquid for a Trowelable consistency. Pour the liquid into a suitable container and slowly add the powder to the liquid. Mix the contents using a slow speed drill (300-400rpm) fitted to a proprietary paddle mixer till a homogeneous, lump free and creamy consistency is achieved. Do not add water to dilute the material.

Application

Polyflex T can be applied using trowel, notch trowel and spray equipment. Work the material well into the prepared substrate, filling all pores and voids.

For brush consistency

Apply the first coat of Polyflex T with horizontal brush strokes and leave to harden (4 – 8hours). Apply the second coat with vertical brush strokes.

For trowel consistency

Apply the first coat of Polyflex T using a notched trowel and leave to harden (4-8 hours). Apply a second coat with a flat trowel.

For spray application

Use a hopper gun spray equipment, textured sprayer (e.g. Texspray E110c), or a rotor/stator pump equipment. Allow the first coat to harden (4-8 hours) prior to applying the second coat.

As soon as the mortar layer starts to set, a uniform surface texture can be obtained by rubbing the surface with a fine sponge or plastic trowel. Do not overwork Polyflex T during finishing and avoid using additional water.

[Where required, a third layer of Polyflex T may be applied no later than 24 hrs after the second coat (in this case, no need to trowel or sponge finish the second coat). If intercoat period exceeds 24 hours, light grit blasting is required prior to further application.]

Curing

As with all cement based products, curing is important. Protect newly applied product against direct sunlight, wind, rain and frost. Allow a minimum 48 hours of air curing.

COVERAGE

- 2 kg per m² per coat for 1 mm Dry Film Thickness.
- One coat of 1 mm DFT recommended for dampproofing.
- Two coats of 1 mm DFT recommended for waterproofing.
- Three coats of 1 mm DFT may be required for areas with extremely high water exposure.

STORAGE & SHELF LIFE

Store under cover, out of direct sunlight and protect from extreme temperatures. In tropical climate the product must be stored in air – conditioned environment. Shelf life is up to 12 months when stored as per recommendations.

HEALTH AND SAFETY.

As with all construction chemicals products caution should always be exercised. Protective clothing such as gloves and goggles shall be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

CLEANING & DISPOSAL

Clean all the tools with water after use. Hardened materials can be removed mechanically only.

Allow the waste to cure. Seal it into a suitable container and bury in landfill. Use licensed waste disposal contractor and consult the local authorities when disposing.

PACKING

Polyflex T	Part A	20kg
	Part B	5kg

TECHNICAL PROPERTIES

Color	Grey
Mix Ratio	4A : 1B for slurry consistency & 4.5A : 1B for trowelable consistency.
Density (wet mix)	2 kg/lit
Tensile Strength	6.8 Mpa
Compressive strength	20 N/mm ²
Bond strength	1.25 N/mm ²
Flexibility	Approximately 25%
Water Penetration at 5 bar	Nil
Water Absorption	7 gm/m ² /hr
Water vapor Permeability	18 perms / 28 Days (not a vapor barrier)
Carbon Dioxide Diffusion	Approximately 35000, equivalent to 6 inches of concrete.
Water Vapor Diffusion	Approximately 500 (breathable)

Apart from the information given here it is also important to observe the relevant guidelines and regulations of various organisations and trade associations as well as the respective standards. The aforementioned characteristics are based on practical experience and applied testing. Warranted properties and possible uses which go beyond those warranted in this information sheet require our written confirmation. All data given was obtained at an ambient and material temperature of +23°C and 50 % relative air humidity at laboratory conditions unless specified otherwise. Please note that under other climatic conditions hardening can be accelerated or delayed.

The information contained herein, particularly recommendations for the handling and use of our products, is based on our professional experience. As materials and conditions may vary with each intended application, and thus are beyond our sphere of influence, we strongly recommend that in each case sufficient tests are conducted to check the suitability of our products for their intended use. Legal liability cannot be accepted on the basis of the contents of this data sheet or any verbal advice given, unless there is a case of wilful misconduct or gross negligence on our part. This technical data sheet supersedes all previous editions relevant to this product.