

POLYTEX

Elastomeric acrylic waterproofing and protective coating

POLYTEX is a single component, elastomeric, acrylic waterproofing and protective coating. Polytex upon curing forms a tough, flexible and durable coating which is resistant to UV and other weathering agents. Polytex is also used to protect exposed concrete structures against carbonation and chloride ion diffusion.

CHARACTERISTICS

- ▶ Single component, easy to apply
- ▶ Protects exposed concrete structures against carbonation and ingress of atmospheric gases and salts
- ▶ Excellent UV resistance
- ▶ Elastomeric- high crack bridging capability
- ▶ Excellent adhesion to most of the substrates
- ▶ Good resistance to dilute acids, alcohol, hydrocarbons, chloride and sulphate ions

FIELDS OF APPLICATION

Used as waterproofing and protective coating for the following structures:

- ▶ Sloped concrete roofs, metal profile roofs & asbestos roofs
- ▶ Anti carbonation coating in car park decks
- ▶ Protective coating on underpasses & concrete bridge decks
- ▶ Protective coating on polyurethane foam insulation

APPLICATION INSTRUCTIONS

Application procedures may vary slightly depending upon site conditions. The general recommended guidelines for the application of the coating is as follows:

Surface Preparation

Concrete Surface:

Clean the surfaces which shall receive the coating of all dust, dirt, moss, oil and grease, loose particles, cement laitance and all other deleterious materials which will affect the adhesion of the coating with the substrate. Cracks and potholes shall be repaired with concrete repair mortar from the POLYCRETE* range.

Metal surface:

Clean the surface of all rust scales. This can be achieved by wire brushing or grit blasting.

Priming

POLYTEX shall be diluted with 20% water and applied as primer coat on the concrete surface to seal the pores and stabilize the surface. The primer also functions as an adhesion promoter for the top coats. This primer coat can be applied by a brush, roller or airless spray and allowed to dry completely before the application of acrylic coating.

Application

Mix the contents of the drum prior to the application to remove any sediment. POLYTEX can be applied by soft bristled brush, roller or an airless spray. When applying by airless spray then dilute the coating with approximately 5% water to reduce the viscosity of the coating. Apply the first coat of undiluted material at a coverage rate of 1 lt./m²/coat to get a Dry Film thickness of 0.50 mm. It is important to ensure that each coat has to be cured totally before applying the next coat. The second coat should be applied at right angle to the first at the same coverage rate, to ensure a full unbroken coating to the substrate. For improved strength and flexibility, embed a 65 g/m² non woven geo-textile membrane whilst the first coat is still wet on all corner joints, fillets and pipe penetration joints. Allow the coating to cure fully for 72 hours to achieve its full properties.

Caution: Prolonged water stagnation will cause the coating to become soft and peel off. Adequate protective measures shall be taken when applying in water logging areas.

COVERAGE

1 lt /m²/ coat for 0.5mm Dry Film Thickness. Two coats will give a combined thickness of 1.0mm thickness.

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.

STORAGE & SHELF LIFE

The pails and drums must be stored in a covered area, away from direct sunlight, UV and other sources of heat. The shelf life of the product is up to 12 months if stored as per recommendations. Excessive exposure to sunlight an UV will result in the deterioration of the quality of the product and reduce its shelf life.

HEALTH & 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 immediately with fresh water. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

SUPPLY

POLYTEX	20L pail & 200 L drum
POLYCRETE	25kg bag

* Refer web site for TDS

TECHNICAL SPECIFICATION

PROPERTIES	VALUES	TEST STANDARDS
Color	White/Grey	-
Solid Content, [%]	50±2	-
Tensile strength, [N/mm ²]	> 1	ASTM D 638
Elongation @break, [%]	>50	ASTM D 638
Hydrostatic pressure @5bar (50m)	No leakage	BS EN 12390 (Part 8)
Toxicity	Non Toxic	BS 6920
UV Resistance @100 [hrs]	Passes	ASTM G 154
Crack bridging ability, [mm]	> 0.5	ASTM C 836
Application temp, [°C]	5 to 45	-
Service temp, [°C]	-5 to 70	-

All values given are subject to 5-10% tolerance

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 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.

Manufactured in G.C.C.

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