

# POLYXANE

## Silane siloxane based penetrative protective coating

TDS\_Polyxane\_GCC\_1115

1

POLYXANE is a single component highly penetrating protective treatment for concrete, masonry and stone work which works by penetrating into the pores of concrete, masonry, stone work and reacts with moisture or water vapour that is present in the substrate thus forming a hydrophobic siloxane lining to the capillary pores. This hydrophobic treatment is very effective in reducing the passage of water and water borne salts whilst allowing moisture vapour to dissipate to the atmosphere. POLYXANE is also used as a primer for anti carbonation coatings.

### CHARACTERISTICS

- ▶ Highly penetrative clear, non-staining sealer.
- ▶ No change in surface appearance/texture.
- ▶ Integral protection, cannot delaminate or de-grade.
- ▶ Reduces discoloration of white or coloured concrete due to pollution.
- ▶ Reduces the ingress of Chloride ions and Sulphates.
- ▶ Excellent water repellent characteristics.
- ▶ Compatible with solvented surface coatings.

### FIELDS OF APPLICATIONS

Reduces the penetration of chloride ions and sulphates into reinforced concrete.

- ▶ For sealing of white and precast concrete.
- ▶ Reducing efflorescence.
- ▶ Waterproofing sealer for edges of stone marble.
- ▶ As a primer for other repair mortars.

### APPLICATION INSTRUCTIONS

#### Surface Preparation

All surfaces to be treated should be fully cured, dry and free from laitance, traces of mould oil or curing compounds. Oil, grease and previous coatings must be removed completely. If the surface to be treated is washed after cleaning it must be allowed to dry before the application of POLYXANE.

#### Application

POLYXANE may be used directly from the container. No dilution with water or solvent is required, however the contents of the container should be mixed before use. Apply by a low-pressure spray or brush ensuring complete coverage. On vertical surfaces apply flood coats starting at the bottom of the panel and working upwards. A min of two coats is required; which should be applied, 'wet on wet'. A maximum of 2 hours over coating time is permissible. Typical consumption will and be 4-5m<sup>2</sup>/L per coat. However, site trial is recommended to ascertain the exact coverage. High winds are detrimental to even application and Will increase wastage. Erect wind breaks if required. POLYXANE is solvent based adequate ventilation is required. Also care is to be taken to avoid prolonged contact with air as it reacts with atmospheric humidity.

### 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 chemical products care should be taken during handling, storage application; avoid contact with eyes, skin and mouth. The use of protective gloves and goggles is recommended. Treat splashes to the skin and eyes immediately with water. Harmful if taken internally.

## TECHNICAL SPECIFICATION

PROPERTIES	VALUES
Specific Gravity, [g/cc]	0.80 ± 0.05
Tack Free time, [hrs]	8
Full Cure, [days]	4
Application Temp, [°C]	5 to 45
Over Coating Time	Wet on wet application
Appearance	Colourless, clear liquid.
Reduction in water Absorption, [%]	85
Reduction in chloride Ion penetration, [%]	90
Chemical resistance	Resistance to petrol, oil and atmospheric contaminants.

All values given are subject to 5-10% tolerance

## COVERAGE

POLYXANE	4 to 5m <sup>2</sup> /L
----------	-------------------------

## SUPPLY

POLYXANE	20L pail and 200L drum
----------	------------------------

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.

Manufactured in G.C.C.

**Henkel Polybit Industries Ltd.**  
 P.O. Box 293, Umm Al Quwain, UAE  
 Tel: +971 6 7670777, Fax: +971 6 7670197  
[henkelpolybit@henkelpolybit.com](mailto:henkelpolybit@henkelpolybit.com)



**Henkel Polybit Industries Ltd.**  
 P.O. Box 2230, Al Khobar 31952, KSA  
 Tel: +966 13 808 4061/62, Fax: +966 13 812 1164  
[dammam@henkelpolybit.com](mailto:dammam@henkelpolybit.com)