

# POLYGLOW HD

## Solvented Bituminous Protective Coating for Concrete & Steel

POLYGLOW HD is a solvented bituminous coating which is used as a protective coating for concrete and steel structures and concrete pipes.

### CHARACTERISTICS

- ▶ Cold Applied
- ▶ Excellent barrier against Chloride ion ingress
- ▶ Excellent barrier against Carbon Dioxide Diffusion
- ▶ Good resistance against chlorides and sulphates
- ▶ Excellent Heat Resistance
- ▶ Non Toxic
- ▶ Easy to apply
- ▶ Complies to the requirements of BS 6920, BS 3416

### USES

- ▶ Protective coating for concrete pipes. (Internal & external).
- ▶ Protective coating for buried steel and concrete surfaces.
- ▶ Protective coating of steel reinforcements.
- ▶ Internal lining of water tanks.
- ▶ Damp proofing of below ground block work.
- ▶ Prevention of rising dampness through solid concrete structures.
- ▶ Painting of weathered asbestos cement panels, plasterboard panels, concrete, stone, permeable facing Panels & steel surfaces
- ▶ Protective coating on ductile iron pipes

### APPLICATION

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

#### Surface preparation

The surface shall be cleaned thoroughly of all contaminants like dust, traces of curing compound, oil,

grease. Light mechanical grinding/grit blasting/high pressure water jet may be used to clean the surface of all the contaminants depending on the degree of contamination on the surface to be coated.

All surface imperfections and protrusions shall be removed and repaired. Structurally unsound and friable concrete must be removed and repaired with a suitable POLYCRETE\* concrete repair mortar.

The bituminous paint can be applied is recommended to be applied by an airless spray. In smaller or confined areas the application can also be done with a brush or roller.

When applied with an airless spray it is recommended to dilute the coating with 5-10% (By Volume) POLYSOLVENT thinner.

The coverage is dependent on the surface texture and the porosity. As a damproofing membrane for solid concrete floors: One litre will cover approximately 2-3m<sup>2</sup> per coat.

As a treatment to below ground external masonry prior to back filling, one litre will cover approximately 2-4m<sup>2</sup> per coat. For black painting of weathered asbestos cement panels-plasterboard panels, stone and other permeable facing panels, one litre will cover approximately 4.5-6.5 m<sup>2</sup> per coat.

As a protective coating on concrete pipes the coating can be applied at 5m<sup>2</sup>/liter @100microns.

### COVERAGE

Concrete pipes	: 5 m <sup>2</sup> /lt./coat for 100μ DFT
Steel	: 6 m <sup>2</sup> /lt. for 75μ DFT
Damp-proof coating	: 3 m <sup>2</sup> /lt./coat for 150μ DFT
Internal lining of concrete	: 4 m <sup>2</sup> /lt./coat for 125μ DFT

### STORAGE & SHELF LIFE

Store under cover, out of direct sunlight in a non smoking zone and protect from extreme temperatures. Shelf life will be up to 12 months when stored as above. Containers that have been used must be carefully resealed and kept upright to prevent leak-

age. Failure to comply with the recommended storage conditions may result in premature deterioration of the product.

## HEALTH & SAFETY

As with all bitumen products caution should always be exercised. Protective clothing such as gloves and goggles should be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the product be accidentally swallowed, do not induce vomiting. Call for medical assistance immediately. Ensure that the container is available for medical attendant to examine an

## SUPPLY

POLYGLOW HD	20 lt. pail and 200 lt. drum
POLYSOLVENT	5 lt. and 20 lt. pail

## TECHNICAL SPECIFICATION

PROPERTIES	VALUES
Color	Black Brown
Density, (g/cc)	1.15 - 1.35
Solid Content, (%)	70±5
Finish	Semi-Flat
Dry to touch	1 hour @25°C
Flash Point	27°C
Toxicity	Non-toxic
Heat Resistance	80oC
Recommended Recoat Interval	24hrs
Application temperature	5°C to 45°C
Service temperature	-5°C to 80°C
Airless Spray Specification	
Nozzle Orifice	0.019" - 0.021"
Nozzle pressure	140-150 bar/ 2030-2175 psi

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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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