

hydraguard

One component, moisture-curing, elastomeric Polyurethane Coating



DESCRIPTION

HYDRAGUARD is a high performance, hand-applied, low VOC, moisture-curing single-pack elastomeric polyurethane waterproofing membrane.

RECOMMENDED FOR

- roofs
- wet areas
- podiums and balconies (under tile)
- sloped and vertical surfaces

FEATURES & BENEFITS

- Monolithic membrane – no lap, weld or seams
- High resistance to puncture
- High resistance to fouling
- High resistance to stagnant water
- High elongation, →300%
- No reinforcement required
- Excellent crack bridging capability
- Elastomeric behaviour: remains flexible at low temperatures
- Single-pack: no mixing, ready to use

APPLICATION PROCEDURE

Preparation:

Surface must be clean, sound, smooth and dust-free as well as oil-free.

A compatible primer, (refer to primer selection table), should be applied to ensure the adhesion of the membrane to the substrate as well as preventing outgassing from the concrete.

Application:

HYDRAGUARD can be applied with a brush or a roller to the desired thickness.

Two coats of 0.68L/m² (680 micron) are required to achieve a dry film thickness (DFT) of 1.2mm.

Application temperature of HYDRAGUARD is →5°C to 35°C.

Recoating instructions:

In normal conditions, HYDRAGUARD can be recoated with another layer of HYDRAGUARD after one night and within 24 hours. In case of rain or if the recoating interval was exceeded, come back to the substrate by grinding.

Contact your Polybit representative with any question.



3A Bellfrog Street
Greenacre NSW 2190

www.polybit.com.au



hydraguard

One component, water based Fully Aliphatic Polyurethane Coating

PHYSICAL PROPERTIES

In liquid form (before application): ~88% solids content.

Composition		Single pack moisture curing Poly.	-
Density (liquid)	(g/cm ³)	1.35 - 1.40	ASTM D1475-13
Density (cured)	(g/cm ³)	1.46 - 1.50	AS 1683.4
Service Temperature	(°C)	-20 to +80	-
Curing time	(hours)	Cured overnight	-
Shelf Life	(months)	9	-
*Viscosity @ 30 RPM	(cPs)	8,000 - 14,000	-
Non volatiles	(%)	88	ATSM D2369-10
VOC content	(g/L)	180	ATSM D2369-10
Odour		Mild odour	-
Tensile strength	(MPa)	→ 2	AS 1683.11
Elongation	(%)	→ 300	AS 1683.11
Hardness	(Shore A)	50	AS 1683.15.2
Angle tear strength	(kN/m)	12	AS 1683.12
Peel adhesion	(N)	→ 95 (concrete)	ASTM C794
Re-coating interval		Maximum 24 hrs after application	-
Rec. substrate temperature	(°C)	+ 5 to +35	-
Rec. substrate moisture	(%)	up to 5	-
Rec. relative humidity	(%)	Between 20 and 90	-

CONSUMPTION

In order to achieve a 1.2 mm dry film thickness (DFT), total 2 coats, with each coat 0.68mm (680 microns) WFT, are required.

MINIMUM THICKNESS

1.36 mm WFT

1.2 mm DFT

CLEANING

Clean tools and equipment first with paper towels and then using SOLVENT. Rollers will not be re-usable.

SAFETY

Please refer to the Material Safety Data Sheet (MSDS) for personal protection, proper handling and storage.



3A Bellfrog Street
Greenacre NSW 2190

www.polybit.com.au



hydraguard

One component, water based Fully Aliphatic Polyurethane Coating

PRIMER SELECTION TABLE

Please consult Polybit's technical department for further recommendations

SUBSTRATE	Recommended PRIMER
Porous substrates such as; <ul style="list-style-type: none">• Concrete, Villaboard, bricks, Besser Blocks, Cement sheeting, etc.	<ul style="list-style-type: none">• Polyprime• Hydraprime• Hydrapoxy
PVC substrates	<ul style="list-style-type: none">• PVC prime
Metal substrates	<ul style="list-style-type: none">• METAL prime
Other non-porous substrates (consult the POLYBIT technical department)	<ul style="list-style-type: none">• Hydraprime• Hydrapoxy

COMPLIANCE

HYDRAGUARD is AS/NZS 4858:2004 and AS4654.1:2012 approved.

WARRANTY

Polybit Waterproofing Systems products are manufactured very rigid quality standards and guarantees the performance of Hydraguard when the following applications are followed.

- Applied to adequately prepared and structurally sound surfaces
- All tiling installed in accordance with AS3958
- All waterproofing membrane installed in accordance with AS4654 and AS3740
- All relevant requirements of NCC
- Polybit Waterproofing Systems TDS or other written instructions

Polybit Waterproofing Systems Will warrant its products for 10 years from time of application. If any product that have been applied in accordance with its specific data sheet or with Polybit Waterproofing Systems written instructions that have been proven faulty or defective, Polybit Waterproofing Systems will replace product free of charge and cover labor of original installation.

DISCLAIMER

The information, and, in particular, the recommendations relating to the application and end-use of Polybit Waterproofing Systems products, are given in good faith based on Polybit Waterproofing Systems current knowledge and experience of the products when properly stored, handled and applied under normal conditions.

It is your responsibility to ensure that our products meet your requirements, are used and handled correctly in accordance with any applicable Australian Standard, our instructions and recommendations and only used for the applications for which they are intended.

In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered.

We also reserve the right to update information without prior notice to you to reflect our ongoing research and development.

The supply of our products and services is also subject to certain terms, warranties and exclusions, which may have been disclosed to you in prior dealings or are otherwise available to you on request. You should make yourself familiar with these.



3A Bellfrog Street
Greenacre NSW 2190

www.polybit.com.au

