

hydrapoxy

Two-component, low viscosity, water based, 1:1 by volume, epoxy coating / primer.



DESCRIPTION

HYDRAPOXY is a revolutionary epoxy based primer/coating formulated by POLYBIT research and development laboratory. It is a two-component, water based, epoxy coating, specially formulated for use in a 1:1 by volume ratio. This allows the user to consume even the smallest quantities and store the material for future needs. The viscosity of the material is low and the pot life long, making it ideal for DIY applications.

HYDRAPOXY can be easily colored with universal pigment pastes available in hardware stores and can be filled with equal parts of quartz sand giving rise to an excellent protective coating for concrete surfaces. The material displays very low levels of yellowing upon prolonged exposure to UV.

RECOMMENDED FOR

- Primer for POLYBIT range of polyurethane and water based products.
- Primer when humidity barrier properties are required.
- Sealing coat for concrete.
- Adhesive layer between old and new concrete.
- Anti-Dust floor coating.
- Protective coating for old metal based structures.

FEATURES & BENEFITS

- 1:1 By volume application ratio.
- Quick curing even at lower temperatures.
- Low-odor, safe and non-flammable (zero VOC).
- Suitable for application in closed spaces.
- Easy clean up.
- Strong adhesion even on damp or green concrete. Also on iron, galvanized steel, aluminium, glass and wood.
- Good mechanical properties and abrasion resistance.
- Easy coloring with water based pigment paste.
- Visible pot-life.

CONSUMPTION

- **As primer** – Apply in one or two thin coats with total consumption of 150-200 gr/m².
- **As water/humidity barrier** – Apply in three coats with total consumption of 500-600 gr/m².

CLEANING

Clean tools and equipment first with paper and then using water. Under no circumstances should they be re-used to mix/apply polyurethane products.



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APPLICATION PROCEDURE

Mixing:

Mix the two components well manually or using a low speed (300 rpm) mixer.

Application:

- As primer – Application in thin coats only. Apply with roller in one or two coats with total maximum consumption of 150-200 gr/m².
- As water/humidity barrier – Apply with roller in three coats with total consumption of 500-600 gr/m².

Recoat time cannot be determined in terms of hours since it is highly dependent on weather conditions: It can be as low as 2 hours during summer and as high as 24 hours during winter. Use the following rule of thumb to determine when recoating should take place. Recoat when material has hardened to the degree where it can no longer be punctured by finger nail.

- Do not exceed the stated consumption numbers, as this will affect adversely its adhesion and durability.
- Pot life of mixture is 1-hour maximum at 25 °C.
- Do not apply when temperature is below 12 °C.
- Hot concrete should be wetted before application.

PACKAGING

Component A: 1 Lt, 4 Lt

Component B: 1 Lt, 4 Lt

SHELF LIFE

Can be kept for 12 months minimum in the original unopened pails in dry places and at temperatures of 5-25°C. Once opened, use as soon as possible.

SAFETY INFORMATION

HYDRAPOXY is free of solvents. Nevertheless, you are advised to observe the standard safety rules: Apply in well-ventilated, no smoking areas, away from naked flames. In closed spaces use ventilators and carbon active masks. The M.S.D.S. (Material Safety Data Sheet) is available on request.

WARRANTY

Polybit Waterproofing Systems products are manufactured very rigid quality standards and guarantees the performance of Hydrapoxy 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.

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TECHNICAL SPECIFICATIONS

In liquid form (before application, after mixing):

PROPERTY	UNITS	METHOD	SPECIFICATION
Viscosity (Brookfield) of mixed product	cP	ASTM D2196-86, @ 25 °C	50-100
Specific weight	gr/cm ³	ASTM D1475 / DIN 53217 / ISO 2811, @ 20 °C	1.0
Mixing ratio	A:B, by volume	-	1:1
Tack free time, @ 77 °F (25 °C) & 55% RH	hours	-	3-5
full cure	days	-	3
Recoat time	-	-	When material has hardened to the degree where it can no longer be punctured by finger nail
Pot life	hours	-	3

In cured form (after application):

PROPERTY	UNITS	METHOD	SPECIFICATION
Service temperature	°C	-	10-40
Adhesion to concrete	kg/cm ²	ASTM D4541	→30
Resistance to friction	Gr	ASTM D4541 (Taber 503, CS17, 1.0 kg, 1,000 revs.)	120 * 10 ⁻³

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.



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