

hydralastic FLEX 2K

Two-Component, Flexible Cementitious Mortar for Waterproofing & Protection.



DESCRIPTION

HYDRALASTIC FLEX 2K is a two-component waterproofing mortar based on cementitious binders, synthetic & inorganic polymers and high technology additives in water dispersion.

It is a low viscosity mixture with excellent workability, easy application and very strong adhesion: On vertical substrates, one can apply a layer of thickness up to 2 mm in one coat. It also displays outstanding mechanical properties: It remains flexible even when subjected to varied weather conditions and mechanical stresses.

Apply with trowel, brush or roller in two coats of thickness 1.0-2.0 mm each.

COMPLIANCE

The product is CE certified according to the European Standard EN 1504-2.

CONSUMPTION

Minimum consumption: 1.6 kg/m² per 1mm thickness.
DFT of 1.2mm under tiles and drained areas, DFT of 1.8mm for water tanks and any undrained areas.

RECOMMENDED FOR

Waterproofing and protection of:

- Wet rooms, roofs & balconies, swimming pools (under tiles)
- Water tanks
- Concrete structures
- Pre-cast panels
- Underground structures
- Retaining walls

LIMITATIONS

- Temperature during application limited in the range of 5°C - 35°C.
- Max coat thickness of 2 mm.
- Do not add water, cement or any other aggregate.
- Do not apply in swimming pools in non-protected surfaces.

FEATURES & BENEFITS

Completely waterproof.

- Highly resistant to positive and negative pressures.
- Easy to apply.
- Very strong adhesion.
- High weather and UV resistance.
- Good mechanical properties.
Its flexibility allows it to bridge effectively cracks up to 1 mm wide.
- Slows down the process of carbonation.
- Product exceeds requirements of EN 1504-2 standard.

polybit
WATERPROOFING SYSTEMS

3A Bellfrog Street
Greenacre NSW 2190

www.polybit.com.au



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APPLICATION PROCEDURE

Clean the substrate using a high-pressure washer, if possible. Remove oil, grease and wax contaminants. Cement laitance, loose particles, mould release agents, cured membranes must also be removed.

Priming:

Simply dampen the substrate with water.

Mixing:

The resin component is added gradually to the mortar and mixed mechanically at 400 rpm until you reach a smooth and homogeneous mix.

Application:

Apply with trowel, brush or roller in minimum two coats of thickness 1.0-2.0 mm each. If during application the mix thickens, do not add water. You may instead, dampen the substrate further. The second coat is applied approximately 4-5 hours after the first. Pot life is approximately 1 hour. The final surface should not get wet for 7 days.

JUNCTION & PENETRATION DETAILING

A suitable bond breaker on substrate junctions or penetrations for positive waterproofing applications is Hydraflex Hybrid sealant. Ensure the fillet is fully cured before applying Hydralastic Flex 2k over the sealant fillet.

Another suitable bond breaker is the use of polyester fabric embedded in the Hydralastic Flex 2k.

For any applications that will be permanently submerged in water, both the Hydraflex Hybrid and polyester fabric are required.

TECHNICAL SPECIFICATIONS

PROPERTY	UNITS	SPECIFICATION
Density component A	kg/l	1,45
Density component B	kg/l	1,02
Density of mix A+B	kg/l	1,72
Spread	mm	307
Adhesion	N/mm ²	→2,0
CO2 permeability	m	152
Water vapour permeability	m	2,9
Capillary absorption & permeability to water	Kg/m ² .h ^{0,5}	0,02
Adhesion strength by pull off test	N/mm ²	2,3
Reaction to fire		Euroclass F
Dangerous substances		does not contain



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PACKAGING

Mortar: 25 kg.

Resin: 10 kg.

SHELF LIFE

Can be kept for 12 months minimum in the original unopened bags in dry places and at temperatures of 5-25 °C.

SAFETY INFORMATION

Contains cement: May cause skin irritation due to alkaline reaction. Use protective gloves and goggles. The MSDS (Material Safety Data Sheet) is available on request.

WARRANTY

Polybit Waterproofing Systems products are manufactured very rigid quality standards and guarantees the performance of Hydralastic Flex 2K 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.



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