

Aqua Shield Primer

Water Based Epoxy Primer

Water based dispersible Epoxy Primer, ideal for sealing porous and difficult surfaces.



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Description

Aqua Shield Primer is a two-component Water Based Epoxy Primer with good penetrating properties for use on concrete and polymer modified cementitious screeds.

Aqua Shield Primer is designed to improve the adhesion of all floor toppings and coating systems to the substrate.

Coverage

Coverage varies widely due to the porosity and profile of different substrates.

5 kg Kit - 30 to 40 m²
10kg Kit - 60 to 70 m²

* Coverage figures given are theoretical. Practical coverage rates may vary due to wastage factors and the type, condition, profile and porosity of the substrate.

Environmental Conditions

Aqua Shield Primer should not be used or applied at temperatures

outside of at range of <10°C to >40°C

*temperature control will be required if below this range.

Maximum application temperature is 40°C. Best conditions are 15°C to 25°C, these conditions should be maintained during all the curing time. Application should be done with plenty of air ventilation.

Features & Benefits

- Low viscosity - penetrates the substrate
- Seals concrete pores - reduces the potential for out gassing and pin holing in resin floor finishes
- Improves the adhesion of toppings to the substrate
- Easy to mix and apply

Mixing

Pour part B into part A, stir and completely blend both components using a low-speed mixer using paddle mixer for a minimum of 3 minutes @ 300-400 rpm. Transfer mixed resin into a clean new bucket and mix for a 1 further minute.

Tool Cleaning

Tools and equipment should be cleaned whilst the resin is still wet and should be cleaned using **Sindec Tool Cleaner**

Product Application

Once mixed the primer should be applied immediately in a thin continuous film. As a Primer, 130-200g/m². Work the primer into the surface using squeegee then roll to avoid pooling. On porous surfaces **Aqua Shield Primer** will be absorbed very quickly, use enough required amount primer to ensure complete surface sealing.

Suitable Substrates

Thoroughly prepared concrete, polymer modified sand and cement screeds, steel, brickwork, block work and timber.

Substrate Requirements

Inadequate preparation will lead to loss of adhesion and failure. In coatings, there is a tendency for the finish to mirror imperfections in the substrate. Grinding, or light vacuum-contained shot-blasting is therefore preferred over planning for these systems.

If in doubt, apply a test area first.

Requirements as follows:

- Flat and Levelled (Product is Self Smoothing).
- Compact and Cohesive (Pull off test must show a minimum resistance of 1,4N/mm²).
- Minimum compressive strength of 25N/mm².
- Even and regular surface.
- Free from cracks and fissures. If any, they must be previously repaired (we recommend using Sindec Epoxy Crack Filler).
- Clean and dry, free of dust, loose particles, oils, organic residues or laitance.

Oil & Grease

Isolated contamination should be removed using an appropriate degreaser, rinsed thoroughly, and allowed to completely dry. A coat of **Oil Tolerant Primer** should then be applied (see separate datasheet)

Reapplication

A Second coat is possible as soon as the first one is touch dry and within the following 24 hours.



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Technical Information

PRODUCT INFO BEFORE APPLICATION

	Component A	Component B
Chemical Description	Epoxy	Aqueous Polyamine Solution
Physical State	Liquid	Liquid
Packaging Kits		
5kg kit - Component A & B 10kg kit - Component A & B		
Non-volatile content (%) approximate	>95%	98%
Colour	Clear / Hazy	Brown
Mixing Ratio	A = 100 by weight	B = 143 by weight
Use Before	12 months after manufacturing date	
Pot Life	Temp (°C)	Pot Life (100 g, min)
	20	45
Storage	Keep between 10°C and 40°C. Component A may crystallize if stored for protracted periods under certain conditions. If this occurs, it can be restored to its original conditions by heating it to 70-80°C and stirring it thoroughly.	
	6 25 35	>70 40 25
	Shelf Life 12 Months	

FINAL PRODUCT INFORMATION

Final State	Rigid, Glossy, Homogeneous material
Colour	Clear Resin, if pigmented, colour applied will be showcased in the material.
Hardness (Shore)	65 Shore D hardness after 7 day >58°
UV Resistance	Undergoes slight ambering under sunlight and UV exposure, hardly noticeable in indoor application. No mechanical properties are affected. it is not evident for most colours.
Use Temperature	Stable up to 80°C

Disposal of Containers

Empty containers must be handled with the same precautions as if they were full. Treat empty containers as hazardous waste, and transfer them to an authorized waste manager. If the containers still have some material left, do not mix with other product before considering the risk of potential dangerous reactions.

Technical Advice

For further information on this or any other Sindec product, please contact our office.

Health & Safety

Before using this product, please ensure that you have received and read the product Safety Data Sheet. Refer to hazard labelling on the product. Wear gloves and avoid contact with skin and eyes.

Additional Information

The information contained in this document, and all further technical advice given is based on our present knowledge and experience. However, it implies no liability or legal responsibility on our part. In particular, no warranty or guarantee of product performance in the legal sense is intended or implied as the conditions of use and the competence of any labour involved in the application are beyond our control.

Properties and coverage rates shown are for guidance purposes only. The user of the product must determine the product's suitability for the intended purpose. We reserve the right to make any changes according to technological progress or further developments.

Products are guaranteed against defective materials and manufacture and are sold subject to our standard terms and conditions of sale, copies which can be obtained upon request.

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