

Epoxy Bonding Sealer

Code 160 for 5kg

Biokil Crown Epoxy Sealer, is a twin pack Water Based Epoxy Resin specially formulated to seal and protect concrete floors. It is an essential primer for Epoxy Tanking. The cured film has outstanding chemical and corrosion resistance. Suitable for application to damp surfaces both internally or externally. Used in Warehouses, Printing Shops, Food Processing Plants and most other Industrial environments demanding high levels of hygiene.



Benefits

- Easy to use
- Waterproof
- Wide range of resistance to spillages of Acids, Alkalis and Solvents
- Vapour barrier when used in conjunction with Epoxy Tanking
- Virtually odourless

Typical Applications

As a primer (bonding sealer) for Epoxy Tanking

Preparation

Substrate Preparation

Before undertaking tanking it is essential that the different types of substrate (e.g. brick, stone, concrete) be identified, because the type and degree of penetration will vary considerably and therefore the costs involved must be carefully calculated. It cannot be emphasised too greatly that **all waterproof coatings entirely rely on the quality of preparation** for their long-term effectiveness and therefore considerable time and expense must be allowed for this work within the job costing.

All surfaces should be clean, sound and have no traces of oil, grease, dust, bitumen or any other contaminant (vacuum cleaning is very important). Concrete laitance should be removed by acid washing and rinsing thoroughly. Cleaning is imperative and best results are obtained by the use of **Biokil Crown Concrete Cleaner**. For best results, grit blasting is recommended. It may also be applied to previously painted floors. Surfaces can be damp but running water must be stopped before **Epoxy Bonding Sealer** is used (use Mapei Lamposilex Water Plug) during the application and full curing period. Steel surfaces should be grit blasted to bright metal. Steam clean heavily contaminated floors, allow to dry, then vacuum. Previously painted floors must be well abraded or grit blasted and vacuumed before applying the Epoxy Bonding as loose particles will compromise the bond.

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Mixing

First stir the contents of each Pack thoroughly then empty the entire contents of Pack B (small container) into Pack A (large container) taking care to scrape the sides and bottom of the container and stir thoroughly. Continue mixing until the colour is uniform. Up to one Litre of clean cold water may be added and mixed thoroughly. Mechanical mixing using a paddle attached to a heavy duty slow-speed electric drill is recommended. You MUST always mix the entire contents of Pack A and Pack B

Note: Once mixed, the entire can must be used at once. It is important that part of the mix is not left in the can waiting for a first coat to go tacky. This will result in the part left in the can hardening off. A second Pack (A and B) must always be used for the second coat.

Application

Immediately after mixing, the material should be applied by brush. Do not apply at temperatures below 7°C.

On porous concrete surfaces or where maximum resistance is required, two coats will be necessary

For the best inter-coat adhesion, the second coat, usually required, should be applied immediately the first coat is touch dry and within 24 hours after applying the first coat. On applying the clear grade, the surface may show a light cream colour at first and providing it is brushed out thinly, this will become clear as it cures. Each coat should be well brushed out to a smooth even finish, the second coat a right angles to the first.

Curing

Tack free in 24 hours at c 20°C. Suitable for light traffic in 24 hours. Full chemical and abrasion resistance in 7 days.

Pot Life

1-2 hours at 20°C. Reduced Pot Life at higher temperatures. Extended Pot Life at lower temperatures.

Coverage

Approximately 25-40 m² per 5kg (single coat to smooth surfaces). Porous surfaces and those with heavy textures will use much more.

Health & Safety

As some people find Epoxy Resin based products an irritant to the skin, all users are recommended to use barrier cream and protective clothing. After use wash hands thoroughly with soap and water. Work to a high standard of personal hygiene. See separate Material Safety Data Sheet.

Clean all tools etc. with soap and water immediately after use.

Contents / Packaging

Water Based Epoxy Resin. Colour: Clear
5kg, Twin Pack labelled, Pack A (Resin) and Pack B (Hardener). Combined volume making 5kg

Storage /Shelf Life

Protect from frost. Shelf Life – 12 months in sealed containers stored at above 5°C

AG/05/2021

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