

CIKObond PVA

Adhesive and bonding agent for cementitious system

Description

CIKObond PVA is a polyvinyl acetate emulsion based binder, sealer and cement additive. It dries to a colourless transparent film.

CIKObond PVA is an aqueous emulsion of PVA blended with modifiers to attain and enhance bonding and sealing properties in cementitious systems.

Properties

- Single component additive and easy to use.
- Quick drying and non-toxic.
- Resistance to alkali and ensures compatible to all types of cement.
- Exhibits very good sealing properties.
- As a bonding agent for pre-mixed repair mortar and floor toppings.

Application area

- As a primer for repair and floor toppings.
- Bonding agent for fixing tiles and stones.
- Bonding agent for cement plasters.
- Additive for cement spatter.
- Bonding agent for similar and dissimilar materials.

Applicable standards

CIKObond PVA complies with ASTM C 1059 Type1.

Physical properties

Form	Liquid
Colour	White
Specific gravity	1.01±.005 @ 25° C
Toxicity	Non-toxic
Chloride content	Nil to BS 5075
Flammability	No tendency to flash
Bond strength	>3MPa

Coverage/Dosage

The yield and coverage of CIKObond PVA will depend on the type of application.

Bonding dissimilar material	1 to 2 m ² per litre
Bonding agent / primer	7 m ² per litre @ 1:1 dilution
Bonding agent / Tile fixing	20 m ² per litre @ 1 :5 dilution (Sealer coat) 3 m ² per litre @ 1: 2 dilution

Application instructions

Surface preparation

Clean the surface to make it free from dust, oil, loosely adhered particles, paint stains, efflorescence and other contaminations. The surface should be abraded or sand blasted to provide a rough surface to receive the repair mortar.

Sealer and dustproof primer:

Dilute one part of CIKObond PVA with 5 parts of water and apply using brush or roller on cleaned surface as a sealer coat and allow drying.

Fixing Tiles:

Dilute one part of CIKObond PVA with 5 parts of water and apply using brush as a sealer coat and allow drying. Apply bonding agent CIKObond PVA at 1:2 dilution on sealer coat just before fixing tiles using a thin-bed tile adhesive.

Thin-bed adhesive is prepared by using one part of cement and two parts of sand mixed with diluted CIKObond PVA at the ratio of 1:2.

Bonding new concrete to old concrete:

Dilute one part of CIKObond PVA with 5 parts of water and apply as a sealer coat over the old concrete and allow drying. Apply bonding agent CIKObond PVA at 1:1 dilution over the sealer coat and lay new concrete over it while the coat is still tacky.

Repair mortar:

To repair cracks, holes and resurfacing floor, apply a bonding coat over the cleaned surface using CIKObond

PVA diluted to 1:1, just before application of repair mortar.

Prepare repair mortar using one part of cement and two parts of sand mixed with diluted CIKObond PVA at the ratio of 1:3. Properly mixed material must be applied using trowel and pressed well to fill holes and cracks.

Mixing

Depending on the type of application, CIKObond PVA must be mixed at recommended dosage and dilutions. It is recommended to use heavy duty slow speed drill-paddle assembly for mixing large volumes, to get a homogenous and lump free mix.

Application method

The primer and bond coat can be applied using brush or roller without leaving any gap within the coated area.

The mixed mortar material can be applied on the primed area using trowel and well compacted. During application the repair thickness shall be maintained. For larger thickness, apply the repair mortar in two lifts to build up the thickness. Keep the trowel clean and wet to prevent sticking of material. Do not over trowel.

Curing

All repair mortar and floor topping must be cured as per standard curing practices.

Packaging

CIKObond PVA is available in 20litre pails and 200 litre drums.

Shelf life

CIKObond PVA has a shelf life of 12 months in un-opened pack and if stored in accordance with manufacturer instructions.

Storage

CIKObond PVA should be stored under enclosed shaded area at temperatures between 5 – 35°C.

Precautions

- CIKObond PVA should not be used in temperatures below 5⁰ C

Health & Safety

CIKObond PVA should not come in contact with eyes or be swallowed. Ensure adequate ventilation and avoid inhalation of vapours. Applicator should wear appropriate clothes, gloves and goggles. Use of barrier cream is recommended to provide additional skin protection. If comes in contact with eyes, flush with plenty of fresh water and seek medical advice.

Refer Material Safety Data Sheet for further details.

Technical Support

For any technical support, do not hesitate to contact CIKO team at any time as CIKO offers on and off site services to end users, specifier and contractors.

More from CIKO Middle East

A wide range of construction chemical products are manufactured by CIKO Middle East which includes:

- Concrete admixtures and additives
- Waterproofing and damp proof coatings
- Surface treatments
- Flooring and toppings
- Grouts and anchors
- Tile adhesives and grout
- Concrete repair materials
- Adhesives and bonding agent
- Protective coating
- Joint Sealants and Moulding compounds
- Ancillaries

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