

CAPBOND-PVA

MULTI PURPOSE ADHESIVE & BONDING AGENT

DESCRIPTION

CAPBOND-PVA is a multi purpose adhesive, bonding agent and admixture for cementitious system, based on polymerized (Poly vinyl acetate) resin emulsion, which dries to a colourless transparent film.

USES

- As a multipurpose adhesive for cement screeds rendering plaster and to almost all sound surfaces such as concrete, brick, terrazzo and tiles.
- As a bonding agent for granolithic topping to sub-concrete or new concrete to old.
- As an admixture in cement/sand screeds.

ADVANTAGES

- Multipurpose adhesive.
- Easy to use / apply.
- Superior adhesive properties.
- Quick drying. Non-toxic, non flammable.

TYPICAL PROPERTIES

Appearance:

Milky white viscous liquid drying to colorless transparent film.

Density: 1.0 kg/liter at 25 °C.

pH : 4 to 5

Chloride Content : Nil to BS 5075.

Flammability : No tendency to flash or ignite.

Compatibility with cement:

Compatible with all types of Portland cement.

Shelf life:

Minimum 12 months in sealed original containers, under recommended storage conditions

COVERAGE (As a primer or adhesive)

The coverage rates given are approximate and may vary according to porosity and surface conditions of substrate.

Dilution Rate	Coverage
1:1	5 to 10 m ² /kg
1:2	12 to 20 m ² /kg
1:3	20 to 30 m ² /kg
1:5	25 to 40 m ² /kg

LIMITATIONS

CAPBOND-PVA should not be used as a bonding agent in continuously wet and highly humid areas.

Applicable standards

ASTM C 1059 & ASTM C 1438

DIRECTIONS FOR USE

Surface preparation:

All surfaces must be stable sound and thoroughly cleaned before **CAPBOND-PVA** is applied. All traces of grease, oil, unsound concrete, loose or foreign materials must be removed, as adhesion of the mortar to floor, wall, ceiling etc. will depend a lot on the cleanliness of the surface beneath. Recommended **CAPETCH** for cleaning.

Field of Application:

As a general adhesive:

CAPBOND-PVA bonds asbestos, bricks, concrete, cork, plaster boards, renders, tiles, wood etc. After surface preparation, coat both faces with **CAPBOND-PVA**, allow to become tacky, then press both surfaces together and position as required. Wipe off any excess material and allow to set for 24 hours.

As a bonding agent for cement screed, rendering plaster etc.

On well-prepared surface, apply a sealer coat using 1 part **CAPBOND-PVA** to 5 parts of water and allow this to dry. Then apply a bonding coat of 1 part **CAPBOND-PVA**, with two parts water (dilution rate of **CAPBOND-PVA** varies with substrate porosity) over the surface. Place the screed, plaster or render on the tacky bonding coat using good application practice. Cure the cementitious screeds and renders properly.

Bonding new concrete to old:

Ensure that substrate is well prepared. Apply a sealing coat of **CAPBOND-PVA** diluted with 3 parts of water and allow to dry. Then apply a bonding coat of **CAPBOND-PVA** diluted with equal volume of water and lay the new concrete while this coat is tacky. Cap Bond PVA may also be used as polymer additive in new concrete to improve the bond. Use 10 to 20 kgs of Cap Bond PVA per 100 kg of cement for such application.

As an additive for preparing repair mortars:

Surface must be sound and well prepared. Seal the surface using 1 part **CAPBOND-PVA** with 4 parts water. Allow to touch dry. Then apply a bonding coat of **CAPBOND-PVA** diluted with equal volume of water. Allow to become tacky. Using the same sand and aggregate, as in the concrete to be repaired, prepare a stiff cement/sand mix in 1:2 proportion gauged with 1 part **CAPBOND-PVA** to 2-3 parts water, compact firmly and level with minimum trowelling.

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As bonding agent for ceramic, concrete, quarry, clay & terrazzo tile.

The existing substrate should be leveled and clean. Seal the substrate with a solution of 1 part **CAPBOND-PVA** to 3 part water (dilution rate varies with substrate porosity).

Prepare a thin bed adhesive mix by mixing together one part ordinary portland cement to two part sharp sand with a diluted solution of 1:1 **CAPBOND-PVA** with water. Apply thin bed mix to the base and fix the tiles.

As anti-dust & surface sealing coat:

Apply two coats of **CAPBOND-PVA** extended as 1 part with 3 parts water. Allow first coat to dry before applying second coat.

As an admixture for cement/sand & granolithic screeds:

The use of **CAPBOND-PVA** in the mix allows thin, joint less floor screeds (6 to 18 mm thick) to be laid without the need for setting out bays, new levels etc.

Ensure that substrate is stable, sound, thoroughly cleaned and well prepared.

Apply a bonding coat of **CAPBOND-PVA** diluted with 1 part water onto the surface. Brush well into all crevices and allow to become tacky. Lay the screed on the tacky bonding coat, tamping well to ensure maximum contact with the floor beneath. Trowel to a smooth finish.

Mix design of screed

For domestic use:

Cement 1 part
Sharp sand 3 parts
CAPBOND-PVA 10 kg per 50 kg cement
Water To get semi dry cohesive consistency

For industrial floor:

Cement 1 Part
Sand 1 Part
Granite (3 to 6 mm) 2 Parts
CAPBOND-PVA 12 to 15 kgs per 50 kg cement
Water is adjusted to get workable mix.

Mix the material to a semi dry consistency. Do not mix the mortar too wet. Addition of **CAPBOND-PVA** to the mix will reduce the amount of water to achieve a given workability.

CLEANING OF TOOLS

Clean all the tools and equipment with water immediately after use.

SAFETY PRECAUTIONS

CAPBOND-PVA is non hazardous in normal use. Contact with eye or skin should be cleaned or washed immediately with abundant water.

PACKAGING

CAPBOND-PVA is supplied in 5 kg pails, 20 kg pails and 200 Kg drums

STORAGE

- Store in sealed conventional containers, protected from extreme weather conditions.
- Stir well before use, if stored for a long time.

GENERAL NOTES

- CAPBOND-PVA** is not suitable where conditions of rising damp or permanent dampness are likely to occur.
- Do not apply mixed material too wet.
- Do not over trowel.
- Always lay both sealing coat and bonding coat as recommended.

TECHNICAL SERVICE:

Our Technical Service Department is available at any time to advise you in the correct use of this product or any other Ahlia products.

Note : The information presented herein is based on the best of our knowledge and expertise for which every effort is made to ensure its reliability. Although all the products are subjected to rigid quality tests and are guaranteed against defective materials and manufacture, no specific guarantee can be extended because results depend not only on quality but also on other factors beyond our control.

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