



CEMENT FORTIFIER - PVA

DESCRIPTION

CEMENT FORTIFIER is a poly-vinyl acetate homopolymer (PVA) and is the original type of bonding agent.

CEMENT FORTIFIER is a very versatile additive, capable of bonding cement, bricks, tiles, plaster, ceramics, metal, and fabrics.

CEMENT FORTIFIER can be used neat or diluted depending on application.

As a general rule of thumb, the following procedures should be adhered to:

- Always apply CEMENT FORTIFIER to clean surfaces free of oil, mould, foreign matter, or loose matter.
- Do not use CEMENT FORTIFIER in conditions below 5 deg C.
- Do not use CEMENT FORTIFIER in permanent wet or damp areas, except where cement has been added to make a cement slurry or where diluted CEMENT FORTIFIER is used as an admix to sand/cement or cement/sand/aggregate mixes.
- CEMENT FORTIFIER is not recommended for bonding plastics or rubber.
- Clean up equipment while still wet, with water, if left too long soak in methylated spirit/ water equal parts, then flush with water.

CEMENT FORTIFIER is an ideal admixture for cement toppings (levelling floors), internal, thin section artificial tiles, plaster etc.

In these applications a dilution of 1 part CEMENT FORTIFIER to 10 parts water for the gauge water is an ideal concentration.

To demonstrate the versatility of this polymer we have listed some of the common applications and the recommended use rates:

TOPPING CONCRETE FLOORS (over 5mm thick)

- To a thoroughly clean and dry surface apply a coat of diluted CEMENT FORTIFIER (diluted 1:4 water) and allow to dry.
- Apply a bonding coat of diluted CEMENT FORTIFIER (4: 1 water), progressively as the toppings are being laid and avoid walking on this CEMENT FORTIFIER coating.
- Apply toppings while CEMENT FORTIFIER is still “tacky”. Suggested mix is 2-3 parts clean sand or fine aggregate, 1 part cement (Portland A) gauged with a CEMENT FORTIFIER admixture (CEMENT FORTIFIER 1: water 10).

Note: Surfaces must be clean and free of contamination.

Any surface which has been previously used for storage of grains, animal products must be thoroughly steamed cleaned with a suitable degreasing detergent to ensure bacterial does not grow between the original surface and the new one.

Any surface contaminated with sugar or sugar products must be thoroughly rinsed to prevent the weakening of cement hydration.

Where expansion joints are used in the original floor, they must be followed in the new topping.

PATCHING OR TOPPING CONCRETE FLOORS (under 5mm thick)

- To a thoroughly clean and dry surface apply a coat of diluted CEMENT FORTIFIER (diluted 1:4 water) and allow to dry.
- Apply a bonding coat of diluted CEMENT FORTIFIER (1: 1 water), progressively as the toppings are being laid and avoid walking on this CEMENT FORTIFIER coating.
- While the bonding coat is still wet or tacky, carry out patching or place the topping. Suggested topping mix:
- 2- or 3-parts clean sand, 1 part cement mixed to a workable consistency with CEMENT FORTIFIER and water (1:10). Avoid over trowelling, do not over wet the mix.

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RENDERING SMOOTH SURFACES e.g., steel beams & lintels etc.

- Clean and degrease the surface so it is free of oil and grease etc., wire brush the surface to remove any flaky rust.
- Apply 1 coat of diluted CEMENT FORTIFIER (diluted 1:4 water) and allow to dry.
- While the previous coat is still “tacky” apply one coat of (cement 1, sand 1/4, 5mm metal screenings 2 parts) mixed to a “Splash Coat” consistency with CEMENT FORTIFIER and water (1;4).
- Allow 24 hours before rendering using the specified render mixed with CEMENT FORTIFIER admixture (1:10)

SETTING A CEMENT COAT TO A RENDERED/CONCRETE ROUGH SURFACE.

- To a thoroughly clean and dry surface apply a coat of diluted CEMENT FORTIFIER (diluted 1:4 water) and allow to dry.
- Apply bonding coat of diluted CEMENT FORTIFIER (diluted 1:1 water) to all large holes and depressions and while this is still tacky.
- Mix 5 parts sand and 2 parts cement and enough diluted CEMENT FORTIFIER and water (1;4), to make a concrete consistency, fill any big holes and allow to dry.
- Treat the surface with dilute CEMENT FORTIFIER and water (1;4) and while this coat is still wet mix 2 parts cement and 1 part sand with enough dilute CEMENT FORTIFIER and water (1;4). To make a mix that can be trowelled on 4mm thick.

PLASTER SETTING ONTO CONCRETE CEILINGS, WALLS, BEAMS etc.

- Clean and brush down the surface removing all loose materials, including any oil, grease and form release agents remaining on the surface. Apply 1 coat of diluted CEMENT FORTIFIER and water (1;4). and allow to dry.
- Apply 1 coat of diluted CEMENT FORTIFIER (diluted 1:1 water) to the surface and while this coat is still wet, plaster with Hard Wall Plaster mixed to the required consistency with diluted CEMENT FORTIFIER and water (1;4).

RENDERING ONTO A PAINTED SURFACE.

- To a sound painted surface which has been brushed with a Wire Brush apply 1 coat of diluted CEMENT FORTIFIER (diluted 1:1 water) and allow to dry for 24hrs.
- Apply a coat of diluted CEMENT FORTIFIER and water (1;4). While this coat is still “tacky” apply one coat (4parts Cement, 1part sand, 2parts 5mm Aggregate) mixed to a “Splash Coat” consistency with diluted CEMENT FORTIFIER and water (1;4). Allow to dry for 24 hours before rendering using specified cement Render mixed with CEMENT FORTIFIER and water admixture (1;10).

RENDERING ONTO OFF STEEL FORM STRUCTURAL CONCRETE.

- Remove all Form Release Agents which have transferred from the Forms to the Concrete.
- Remove all loose materials.
- Apply a coat of diluted CEMENT FORTIFIER (CEMENT FORTIFIER 4: Water 1)

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- While previous coat is still wet or tacky apply the Render in the normal manner. For Improved adhesion use a Render mixed with an admixture of CEMENT FORTIFIER and water (1;10).

RENDERING ONTO MASONRY BLOCKS.

- Clean and brush down the surface removing all loose materials.
- Apply a coat of diluted CEMENT FORTIFIER and water (1;4) and allow to dry.
- Apply a coat of dilute CEMENT FORTIFIER (1:1 with water) and while this coat is still wet apply the render using an admixture of CEMENT FORTIFIER and water (1;10).

TRANSPARENT COATING FOR INTERNAL FACE BRICKWORK.

- Face brickwork should be cleaned (using appropriate method) to remove any staining that will be visible through the coating. These stains/imperfections include cement residue, efflorescence, timber stains, rust marks, mould, fungus, oil, and grease.
- Point up any holes in mortar lines using a mix of 1 part Cement, 3parts sand and enough admixture of CEMENT FORTIFIER and water (1;10).
- While the surface is still damp, but not wet, apply a coat of dilute CEMENT FORTIFIER and water (1;6). Allow to dry for at least 24 hours.
- Apply a second coat of diluted CEMENT FORTIFIER and water (1;4) to the dry surface. Repeat, if necessary, the following day. NOTE: Any runs should be wiped of as they occur before they dry. Best results occur when the temperature is above 5 deg C.

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DUSTPROOFING AND/OR RETARDING OIL PENETRATION OF CONCRETE FLOORS.

- To a thoroughly clean floor apply with a broom or brush, two coats of dilute CEMENT FORTIFIER and water (1;6). Leave to dry approximately 12 hours between coats.
- A third coat may be applied for better retardation of oil.
- CEMENT FORTIFIER will dry clear, binding surface particles together and produce a very pleasing smooth hard surface.

RESURFACING OR FILLING HOLES OR CRACKS IN MANY MATERIALS.

CEMENT FORTIFIER will mix with any material that will absorb water cement, plaster, sand, sawdust, lime, crushed stone, silica sands, flour, talc, papier-mache, or fabrics.

- Ensure that the surface or hole is clean and free from dust and loose particles.
- Apply a coat of diluted CEMENT FORTIFIER and water (1;4) and allow to dry.
- Apply a coat of dilute CEMENT FORTIFIER (1:1 with water) and while this coat is still wet apply the filler which has been mixed to a suitable consistency using an admixture of CEMENT FORTIFIER and water (1;4).

FILLING A LARGE HOLE IN A THIN SHEET.

- Clean and brush down the surface removing all loose materials.
- Using neat CEMENT FORTIFIER stick a piece of heavy gauze over the hole, depressing the centre into the hole, allow to dry.



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- Apply a coat of diluted CEMENT FORTIFIER and water (1;4) and allow to dry.
- Apply a coat of diluted CEMENT FORTIFIER (Cement Fortifier 1: water 1) and while this coat is still wet apply the filler which has been mixed to a suitable consistency with diluted CEMENT FORTIFIER (Cement Fortifier 1: water 4). Carry the patch 50 mm out from the hole and feather the edges.
- When dry, sand to shape and smooth.
- Apply 1 coat of diluted CEMENT FORTIFIER (Cement Fortifier 1: water 4) before re-painting.

TREATING CONCRETE SPALLING (CONCRETE CANCER)

- Scratch or dig out all decaying Concrete back to a solid surface. Care must be taken to remove all loose material. If this is not done the carbonation process will continue. Test the remaining surface with an indicator solution of phenolphthalein. If the solution remains colourless keep removing the affected concrete. If the indicator goes red enough has been removed and the remaining surface is sound.
- Treat all exposed reinforcement with a Rust Converter and Rust Inhibiting primer.
- Apply 1 coat of diluted CEMENT FORTIFIER and water (1;4) to the area to be patched and allow to dry.
- Apply 1 coat of diluted CEMENT FORTIFIER (Cement Fortifier 4: water 1) and while wet apply patching mortar.
- Mix Patching Mortar using cement and sand , sand, and aggregate with an admixture of CEMENT FORTIFIER and water (1;10).

NOTE: This is a cosmetic treatment only; the deterioration of the concrete may re-occur in this area or other adjacent areas. It is the user's responsibility to ensure that the remaining concrete and reinforcing steel can still provide adequate structural strength to meet the original building specifications.

PATCHING CONCRETE FLOORS AND DRIVEWAYS.

- Clean and degrease the surface so it is free of oil and grease etc., wire brush the surface to remove any flaky rust.
- Apply 1 coat of diluted CEMENT FORTIFIER (diluted 1:4 water) and allow to dry.
- Apply a coat of dilute CEMENT FORTIFIER (Cement Fortifier 4: water 1) and while wet apply patching mortar.
- Use a patching mortar made up of 1 part cement , 3 parts sand mixed to a workable consistency with an admixture of CEMENT.

FIRST AID, SAFETY & STORAGE

Refer to Material Safety Data Sheet.

PACKS

500ml, 1L, 4L, 20L, 200L.

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