NITOBOND PVA

constructive solutions

Multi-purpose resin adhesive, sealer and cement admixture

Uses

As a multi-purpose adhesive

Bonds asbestos, bricks, carpet, China, concrete, cork, earthenware, glass, laminated plastic, leather, linoleum, plasterboard, polystyrene, renders, roofing-felt, stone, textiles, tiles, wood.

As a plaster bonding agent

Reduce hacking and keying, and will provide an adhesive or mechanical key to receive plaster or render coats of gypsum, lightweight gypsum, or anhydrous plasters.

As a bonding agent for tiles

Wood-block, cork, linoleum, ceramic, terrazzo, concrete, quarry, clay, polystyrene and acoustic tiles; plasterboard and acoustic board.

For repairs to concrete and natural or reconstructed stone.

- Resurfacing, renovation, surface restoration.
- For bonding of granolithic toppings to sub-concrete.
- For repairs to concrete and granolithic floors.
- Repairing cracks and holes in cementitious floors.
- Resurfacing of worn concrete and granolithic floors.
- Levelling of worn stair treads.
- As a primer for over-coating bitumen with oil based paints.
- For dust proofing floor screeds and friable concrete flooring.

Advantages

- Versatile - Applications relevant to most building trades.
- Universal Bonding Agent - Bonds most common construction materials.
- Easy to apply - Can be applied by brush, roller or spray.

Description

NITOBOND PVA is a multi-purpose adhesive based on polymerised resins and is a white, non-toxic, water based emulsion which dries to a transparent film.

Technical support

Fosroc offers a comprehensive range of high performance, high quality construction products. In addition, Fosroc offers a technical support package to specifiers, end-users and contractors as well as technical on-site assistance in locations all over the world.

Application instructions

Surface preparation

Surface must be sound and thoroughly cleaned before NITOBOND PVA is applied. All loose particles, old mortar, laitance, dirt, paint etc., must be removed by brushing with a stiff/wire brush or other suitable means.

Fungi or Algae should be scoured away. Timber and composition boarding must be dry and free from wax, polish and paint etc., all traces of oil and grease must be removed with suitable degreasing agent.

On vertical surfaces, where all paint cannot be removed, it is advisable to peck-hammer, except where gypsum plasters are to be applied. This ensures a bond between NITOBOND PVA and the structure, and prevents failure due to lack of adhesion between the paint film and the substrate.

Sealing porous surfaces

Porous surfaces should be sealed with a solution of 1 part NITOBOND PVA to 10 parts clean water.

PT.FOSROC Indonesia
Jl.Akasia II Blok A8 No.1
Delta Silicon Industrial Park
Lippo Cikarang
Bekasi 17550
Indonesia

telephone: +62 21 897 2104-06
fax: +62 21 897 2107
email: Indonesia@Fosroc.com

NITOBOND PVA

constructive solutions

Breeze, foam, slag and other lightweight building blocks are exceptionally absorbent and may require wetting down before sealing.

Specific application

1. As a general adhesive

After surface preparation, apply a thin film of neat NITOBOND PVA over both faces and allow to tacky (20 to 30 minutes). Bring surfaces firmly together, positions as required, wipe off any excess and allow set for 24 hours. Do not clamp tightly as NITOBOND PVA may be squeezed out.

IMPORTANT NOTE:

NITOBOND PVA will not bond polythene, PVC rubber or similar materials. If in doubt consult Fosroc Technical Department.

2. As a plaster bonding agent for gypsum, light- weight gypsum and anhydrous plasters

Seal as required and prime with solution of 1 parts NITOBOND PVA to 1 part water and allow to tacky. Then plaster straight onto the tacky NITOBOND PVA in the normal way.

For heavier renderings and cementitious toppings

Seal and prime as above and then prepare a key coat by mixing 1 part ordinary Portland cement, 1 part clean washed sharp sand, gauged to a stiff consistency with 1 part NITOBOND PVA to 3 parts clean water.

Apply this to the tacky priming coat to an average thickness of 6 mm (1/4 inch) and stipple with stiff brush, or otherwise roughen surface to provide a good mechanical key. Allow to harden and dry thoroughly. Test for adhesion before applying rendering.

For plastering on to glazed tiles

To ensure a satisfactory bond, a mechanical key should be provided by light peck hammering before sealing, priming and plastering as above.

3. For repairs to concrete

Prepare and seal surface as required, apply priming coat of 1 part NITOBOND PVA to 1 part water and allow to become tacky. Using the same sand or fine aggregate as in the concrete to be repaired, prepare a stiff cement/sand mix in the proportions 1:2 (or leaner) gauged with 1 part NITOBOND PVA to 3 parts clean water.
Compact firmly and level out with minimum trowelling.

4. For repairs to natural or reconstructed stone

Prepare and seal surface as required, apply priming coat as above. Prepare a stiff mix comprising ordinary Portland cement with original aggregate in as lean a mix as possible, e.g. 1:6 (leaner) consistent with strength requirements*, gauged with 1 part NITOBOND PVA to 3 parts clean water. Compact firmly and level out with minimum trowelling.

NB: Resurfacing does not normally call for high strengths. Colours can be matched by adding pigments to the mix. Where high strengths are required, Fosroc should be consulted for advice on alternative materials.

5. For repairs to concrete and granolithic floors

Prepare and seal surface as required. Apply priming coat of 1 parts NITOBOND PVA to 1 part water. Brush well into all crevices and allow to tacky. The priming coat must never be allowed to dry. If it does, re-prime and proceed only when tacky. Prepare a mix of 1 part ordinary Portland cement, 2.5 parts clean washed sharp sand, gauged to a stiff consistency with 1 part NITOBOND PVA to 3 parts clean water. Then proceed as for the particular application as below.

Repairing cracks and holes in Cementitious floors

Place mix on tacky priming coat, compact firmly and level out to a smooth finish with minimum trowelling. Deep holes and cracks should be filled with ordinary concrete onto the tacky priming coat to within 6 mm (1/4 inch) of the surface and topped off to above specification whilst ordinary concrete fill is still green.

Resurfacing of worn concrete and granolithic floors

Place mix onto tacky sealing coat and trowel into surface of floor using existing exposed aggregate as level, so replacing mortar lost by wear. Treat deep indentations as for cracks and holes (See below).

Levelling of worn stair treads

Place mix on tacky priming coat, compact firmly and level out to a smooth finish with minimum trowelling. To give a non-slip surface to the stair tread, a piece of hessian should

PT.FOSROC Indonesia
Jl.Akasia II Blok A8 No.1
Delta Silicon Industrial Park
Lippo Cikarang
Bekasi 17550
Indonesia

telephone: +62 21 897 2104-06
fax: +62 21 897 2107
email: Indonesia@Fosroc.com

be placed on the newly filled area soon after trowelling, and lightly tamped to leave an impression of the hessian.

6. As a bonding agent for tiles, wood block, cork, lino and acoustic tiles

Use NITOBOND PVA as a general adhesive. If the surface is uneven, the adhesive should be filled as described below under 'Polystyrene Tile'.

Ceramic, concrete, quarry, clay and terrazzo tiles

Seal with a solution of 1 part NITOBOND PVA to 5 parts water. Brush well into the surface and allow to dry. Before bedding tiles in sand and cement, give the floor and base of tiles a further coat of 3 parts NITOBOND PVA to 1 part water. Whilst this is still wet or tacky, apply sand and cement bedding to base and bed the tiles.

Polystyrene tiles, plaster board and acoustic board

Prepare and seal the surface as required Then using a suitable filler such as plaster, cement, fine sand or sawdust, make a paste with a solution of 1 part NITOBOND PVA to 1 part water. Apply this mixture as an adhesive coat to the tiles and surface to be bonded.

7. For bonding granolithic toppings to sub-concrete

Prepare surface and apply a priming coat of 1 parts NITOBOND PVA to 1 part water. Brush well into all crevices and allow to become tacky. The priming coat must never be allowed to dry. If it does, then the surface must be re-primed.

Prepare key coat consisting of ordinary Portland cement in 1 part clean sharp sand gauged to a stiff consistency with a solution of 1 part NITOBOND PVA to 3 parts water. Spread over area whilst priming coat is still tacky to an average depth of 6 mm (1/4 inch) then stipple with a stiff bristle brush to form a mechanical key i.e. as rough a surface as possible. Allow to harden thoroughly and check for adhesion before laying granolithic topping.

8. For dust-proofing floor screeds and friable concrete flooring

Apply 2 coats of a solution of 1 part NITOBOND PVA with 5 parts water, allowing first coat to dry before applying second coat.

9. As a primer for over-coating bitumen with oil based paints

Coat the bitumen with a solution of 1 part NITOBOND PVA to 1 part water as an anti-bleed priming coat suitable for most oil-based paints.

Limitations

NITOBOND PVA should not be used when it will be in continuous contact with water.
NITOBOND PVA should be protected from frost and should not be used in temperatures below 7°C (45°F).

NITOBOND PVA sets by evaporation and should therefore be protected by from moisture during the setting period.

Do not use out of doors in the rain.
Once placed NITOBOND PVA mortars should not be disturbed.

Curing

If un-cured NITOBOND PVA mortar surfaces are exposed to exceptionally severe drying conditions e.g. strong winds, excessive sunshine, close proximity to heat sources etc., the surface may be lightly dampened or protected by covering with damp sacking, polythene sheeting etc. for 24 hours.

Cleaning

Brushes and tools should be cleaned with water immediately after use.

NITOBOND PVA: 20 L pail & 210 L drum

Storage

Shelf life

NITOBOND PVA: 12 months

Storage conditions

NITOBOND PVA should be maintained in dry storage conditions in unopened containers. NITOBOND PVA must be protected from frost.

PT.FOSROC
Indonesia

Jl.Akasia II Blok A8 No.1
Delta Silicon Industrial Park
Lippo Cikarang
Bekasi 17550
Indonesia

telephone: +62 21 897 2104-06
fax: +62 21 897 2107
email: Indonesia@Fosroc.com

NITOBOND PVA

constructive solutions

Precautions

Health and safety

Avoid contact with skin or eyes. Any skin or eye contamination should be washed immediately with plenty of water. Gloves and protective clothing are recommended

Separate SDS available on request.

Fire

NITOBOND PVA is non-flammable

PT.FOSROC
Indonesia

Jl.Akasia II Blok A8 No.1
Delta Silicon Industrial Park
Lippo Cikarang
Bekasi 17550
Indonesia

telephone: +62 21 897 2104-06
fax: +62 21 897 2107
email: Indonesia@Fosroc.com