



BUILD PLUS

CONSTRUCTION CHEMICALS

Buildmix-PVA (PVA based Bonding Agent & admixture for Cement based mixes)

Buildmix-PVA is a chemically engineered product specifically designed to be used as a bonding agent or as an admixture to grouts, mortars, stuccos, Portland cement or gypsum based plasters and compounds. Buildmix-PVA is a PVA based bonding agent and comes as a thick milky white liquid. When used as a bonding agent, it forms a glue line type coating that helps create a chemical bond between a compatible substrate and a suitable top layer.

Usage: Buildmix-PVA is a high quality emulsion that substantially improves the qualities of cement based mortars, such as Thin layer patching mortars, plastering Renders, Floor screeds and toppings, Concrete repair mortars, Corrosion protection of steel, Abrasion resistant linings, Tile fixing mortars, Masonry mortars, etc.

Advantages: When it is added to cement or plaster mixes, the spheres of polymer will coalesce or come together to form a film that coats the aggregate particles and the hydrating cement grains. The resulting mixture bonds better to existing concrete, develops higher strengths, reduces chloride moisture penetration and is more resistant to chemical attack than untreated concrete, etc.

Directions for use:

As a Bonding Agent: When used as “paint on” coating on a suitable substrate, **Buildmix-PVA** dries to a uniform film that retains plasticity and never becomes brittle. It re-wets when exposed to wet concrete or plaster mixes creating a 3 way bond (Chemical, Mechanical and Adhesive). Chemical bond is formed as the wet cement mix is applied over the **Buildmix-PVA** causing it to re-wet, forming a bond within crystalline structure of the new material being applied. Mechanical bond is formed as the Buildmix-PVA penetrates into the pores of the substrate forming a mechanical interlock or physical keying. Roughing or scarifying the substrate will give additional mechanical and physical keying. An adhesive bond is formed as the moisture evaporates from the Buildmix-PVA developing adhesion within the surface pores of the base material.

As an Admixture: When used as an admixture, part of the mixing water is replaced with Buildmix-PVA which results in a mix that has greater adhesion, higher tensile strength and more cohesiveness. Portland cement type mixes become more impact resistant, less brittle and have greater adhesion especially where thin-edging is required. **Buildmix-PVA** is a beneficial admixture when conventional cement mixes cannot be adequately cured. It establishes a superior curing characteristic which is very important to the complete hydration of thin applications of Portland cement mixes. It forms a surface skin which reduces water evaporation along with its chemical ability as a polymer to attract and hold water for a complete cure.

Composition:

Buildmix-PVA is a water based blend of synthetic polymer emulsion of high organic polymer content, additives, fillers and plasticizers specifically formulated to be used in construction industry.

Coverage:

5 to 7 square meter per litre depending on application. Unless otherwise stated typical properties are based on a 3:1 sand-cement mix in which 10 litres of Buildmix-PVA per 50kg of Type I OPC cement has been incorporated.

Typical Properties:

Appearance	: White Viscous Emulsion
Solid Content	: 34% ± 5.0
pH value at 25 ⁰ C	: 4.0 to 6.0
Chloride Content	: Nil
Viscosity at 25 ⁰ C	: 80 to 150 poise

Pack Size: 20 kg jerry cans or 200 kg drums

Code of Practice:

Buildmix-PVA should be applied in accordance with up-to-date relevant British Standard or BS Codes of Practice, details of which can be obtained from British Standard Institute, British Standard House, 2 Park Street, London W.1.

Storage:

Buildmix-PVA should be stored in tightly sealed original factory containers. Store in a horizontal position to prevent moisture accumulation on the drum head, protect from freezing and keep out of direct sunlight.



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Handling:

Buildmix-PVA is a non- flammable and non-toxic in nature. Avoid contact with eyes and skin as it may cause irritation due to its alkaline nature.

Shelf Life:

12 months in a properly closed container. As usual with such adhesives, protect from extremes of heat and cold. Do not store in open and always rotate stock, using oldest material first.

Technical support:

GMC offers comprehensive technical support service & specification assistance in locations to our channel partners, end users, and contractors.

Quality & Care:

All the products manufactured and originated from Gulf Minerals and Chemicals, UAE facility are independently tested and certified under a GMC Management System to conform to the requirements of the quality, environmental, health & safety Standards.

Health & Safety Precautions:

During use, avoid contact with skin and eyes. Wear suitable protective clothing, gloves, eye protection and respiratory protective equipment. The use of barrier creams provides additional skin protection. In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water.

----- Buildmix-PVA -----

