



Buildmix-ACR (Acrylic based Bonding Agent for Concrete Repairs & Concrete Curing)

Buildmix-ACR is a pure Acrylic cement modifier and bonding agent for concrete, mortar, plaster, repairs, floor toppings, etc., designed to give improvements to the mechanical and waterproofing properties of sand-cement based screeds and underlayment.

Uses: Buildmix-ACR is used for improving and bonding floor toppings, plasters and mortars, repair of worn, damaged or spalled concrete, floor screeds and toppings and concrete repair systems. It is Ideal for use in outside applications subject to continual presence of water. It is a recommended primer for BP BondCrete cementitious repair systems.

Advantages: Ready to use from the container, can also be used as a curing membrane for patch repairs, Provides excellent adhesion to concrete, masonry, plaster, cement, fibre board and most surfaces. Greatly improves tensile, compressive and flexural properties allowing thin section application of concrete, mortar, floor toppings etc. Excellent bond achieved even several hours after application. is not affected by water in exterior situations, improves abrasion resistance, and chemical resistance.

Directions for use:

Surface Preparation: Substrates should be mechanically prepared by bush hammering, grit blasting, etc., to produce a clean, exposed aggregate finish, free from dust, oil, grease, paint, laitance etc. to provide a 'key' for the **Buildmix-ACR**. The clean surface should be dampened with water until it is saturated dry prior to the application of the bonding primer. Failure to do this will result in rapid drying of the primer and the mortar becoming unworkable. All excess water must be removed prior to application.

Mixing: Mix and stir **Buildmix-ACR** in the same container thoroughly until a homogenous thick liquid is formed.

Concrete Priming: A coat of **Buildmix-ACR** / OPC grouting slurry should be applied to the pre-dampened surface. The mix should have a thick, viscous consistency and is applied by medium stiff brush (visible brush marks indicate that the right consistency has been achieved). Systems to be bonded must be placed whilst the primer remains tacky. The priming coat must be worked into the surface by stiff brush/broom ensuring uniform wetting out of the substrate. If the primer is allowed to dry, apply a second coat of primer. (Do not re-dampen dried out primer).

As a Bonding Coat: The substrate should be thoroughly saturated with clean water with any excess removed prior to the application of **Buildmix-ACR**. Apply Buildmix-ACR into the substrate, avoid ponding and remove any excess. The repair mortar or topping should be applied whilst the primer is still tacky.

As a Curing Compound: Apply with spray, brush or roller. Ordinary garden type sprayers with neoprene hoses are recommended for best results. Spray uniformly to form a continuous film.

As a Repair Mortar: Pour the aggregate and sand into a stationary concrete mixer. Start the mixer and add the **Buildmix-ACR**. Mix for approximately 2 minutes. Slowly add the OPC and continue mixing for a further 2 minutes. Check the consistency of the mix, and if required adjust to a semi-dry consistency with a small amount of fresh water. The right amount of water has been added when a small quantity of the mix sticks together firmly when squeezed in the hand.

Bonding new Concrete to Old: The substrate should be stable, sound, thoroughly clean and free from oil, grease and any loosely adhering material. Apply a sealing coat of Buildmix-ACR diluted with 4 parts of clean water and allow to dry. Apply a bonding coat of Buildmix-ACR diluted with an equal volume of water and lay the new concrete while this coat is still tacky. To ensure maximum bond strength, add 5 litres of Buildmix-ACR per 100kg bag of cement.

Working Time: Approximately 25 minutes at 25°C

Curing:

Buildmix-ACR applications are cement based products and in common with all such materials, must be cured in accordance with good concrete practice. The use of wet hessian combined with polythene sheeting is recommended for a minimum 7 days to prevent rapid drying out; alternatively a curing coat with Buildmix-ACR can be applied. The system should be allowed to cure for a minimum 7 days at 20°C before subjecting to full service conditions.

Handling:

Buildmix-ACR 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



BUILD PLUS

CONSTRUCTION CHEMICALS

Typical Properties:

Appearance	: White Milky Liquid
Specific Gravity	: 1.06
pH Value	: 4 to 6
Primer Coat	: 5-8 m ² / litre
As a curing Agent	: 6-9 m ² / litre

Pack Size: 20 kg jerry cans or 200 kg drums

Code of Practice:

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

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.

Handling:

Buildmix-ACR 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.

Health & Safety Precautions:

Buildmix-ACR is a non-toxic but it is mildly alkaline. During use, avoid contact with skin and eyes. Wear suitable protective clothing, gloves, eye protection and respiratory protective equipment. In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water.

----- Buildmix-ACR -----

