



## E P™ BONDEX

Ad-Mixture for concrete & masonry

E P™ Bondex is an admixture with a stronger, longer lasting, acrylic composition for adding to cementitious mixtures delivering unequalled adhesion to existing substrates and gives better workability to the user.

With over 30% solid content EP™ Bondex means you can repair and patch up concrete and plastering even faster with no cracking.

EP™ Bondex is designed for floors, skim coats over old concrete and masonry surfaces. Used for repairing holes, cracks and resurfacing old concrete to give a smooth fresh surface, can be mixed with cement plaster, screeds and all masonry wet work.

EP™ Bondex is non-toxic, non-flammable, mixes easily, versatile and water-clean up of tools.

Theoretical Coverage: 5 litres mixes with 50 Kilo of sand and cement mixture. Coverage depends on thickness of coat and roughness of surface.

Consists of: 5 ltr - 20ltr - 220 ltr – 1000ltr IBC

Shelf Life: 12 months minimum from date of manufacture when maintained in protected storage @ 5 – 38 °C.

### APPLICATION GUIDE

**TABLE 1: Typical design mixtures guide (parts by weight)**

USE	EP™ Bondex	OPC	Sand/ Aggregate	Water
Bonding Slurry	1	1.5	N/A	N/A
Waterproof coating	1	2	N/A	N/A
Floor screeding	1	5	15	1
Concrete repair	1	5	15	1
Wall plastering	1	5	15	1



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 no mixing no special equipment non hazardous easy to use

**Surface Preparation:** All surfaces to receive EP™ Bondex mixtures should be free from grease, release agents, oils or chemicals, loose concrete or cement. Any loose concrete/cement should be removed by hand or mechanical means. For honeycomb repairs loose honeycombing should be removed exposing the reinforcement bars, these must be clean, free from grease, oils and dust before application. A pre-wash using clean water may be required for brick, blocks or concrete before application, in general areas that are very dry should be saturated with water before application to avoid rapid absorption of material, substrate should not have free water on the surface.

**General mixing guide:** EP™ Bondex should only be used with quality materials such as fine sand and good quality cement, both dry mixes should be free of lumps or hard objects i.e. plastics, glass or any other construction materials.

**Small quantity mixing: By hand:** EP™ Bondex can be mixed by hand for small quantities, for example below 25kg's in dry mix weight. Use good quality sand and cement mixture for all concrete, bonding or repair works.

**Large quantity mixing: By mixer:** Preferably a paddle blade mixer for larger quantities i.e. above 25kg's in dry mixture weight. A cement mixer can also be used for even larger quantities. In both cases the dry mixture should be well blended before the introduction of EP™ Bondex.

**Bonding Slurry:** Mix EP™ Bondex as per TABLE 1; apply mixture to a pre-wetted surface using a hard/stiff bristled brush, ensure that coating is even with no holes. Thickness should be no less than 1mm and no more than 2mm. Mix 18 to 22 litres of EP™ Bondex to 50 kgs of OPC (Ordinary Portland Cement) to a slurry consistency and apply immediately to substrate. Coverage will be 18 to 22 square metres. If a second application is required first coat must be fully dried with the second coat being applied in an opposite direction to the first coat.

**Waterproofing Coating:** Surfaces should be prepared as stated. If area has right angles, an angle fillet must be installed before application. Mix EP™ Bondex as per Wall Plastering instructions, after mixing, pre-prime the area using EP™ Bondex diluted with water at 1 part EP™ Bondex to 3 parts water. Apply by brush or fine sprayer, when still wet, do not allow pre-prime mixture to dry, apply wet mixture to the area at approximately 45mm high by 45 mm wide, mixture should be forced against surfaces forming an triangle fillet. Allow to dry for 24 hours. A pre-wetting of substrates may be required. Mix EP™ Bondex as per Bond Slurry application and apply 2 coats, 1st coat must be allowed to dry completely before application of the 2nd coat, apply 2nd coat in the opposite direction to the 1st coat, both coats should not be more than 2mm in thickness. Allow 2<sup>nd</sup> coat to dry completely then apply a 3<sup>rd</sup> coat in the opposite direction to the 2<sup>nd</sup> coat. Allow to dry completely for a minimum of 48 hours before filling with water. It is important to note that in warmer climates or below ground usage the drying time may be longer than stated here.

**Floor Screed:** Approximately 5 litres of EP™ Bondex mixed with 50 kilograms of sand and cement mixture. E P™ Bondex can be diluted with water up to 1:1 then added to dry sand & cement mixture, the higher the ratio of E P™ Bondex mixed the faster the repairs will dry. Add EP™ Bondex in small quantities until the desired consistency is given thoroughly mixed material should be used quickly.



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**Concrete Repair:** Surfaces should be prepared as stated. Mix EP™ Bondex as per Bonding Slurry; apply mixture to a pre-wetted surface using a steel trowel. Thickness should be strong enough to hold its own weight, applicator may have to build the repair mixture up step-by-step. If so, X marks should be placed on each layer allow the following layer to be built up without the need for a pre-prime coat.

**Wall plastering:** For excellent results for your plastering use EP™ Bondex Bonding Slurry mixture to the substrate beforehand. Apply a thin layer no more than 1mm and allow to dry for 45 minutes. Follow TABLE 1: Instruction for mixing Wall Plastering and apply to the vertical surface immediately, building up each layer 1 by 1. EP™ Bondex gives the contractor faster drying time so dry time between each layer can be between 30 – 55 minutes weather depending, in cold weather the dry time will slower.

#### EP™ BONDEX

##### 100% ACRYLIC EMULSION FOR CEMENT BASED FORMULAS

- Fourth Generation low viscosity emulsion developed specifically for enhancing the strength, durability and adhesion of cement based products.
- Prevents screeding from developing air pockets and ‘drum’ sounds.
- Suitable for the formulation of conventional and light weight renders and coatings, waterproofing systems, patching and repair mortars, underlayment’s and commercial flooring.
- Provides dramatic improvements in bonding liquid applications, especially under wet conditions.
- Replaces hacking and attaching wire mesh to walls before plastering painted surfaces
- E P™ Bondex dries quickly and hardens all cement repairs in less than 30 minutes.
- Formulated systems display the typical 100% acrylic benefit on exterior exposure, no degradation or colour development.



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