



- Concrete Repair

Product description

Bondcrete Polymer is based on styrene butadiene. It is used as an admixture for cementitious applications, including repairs, renovation, surfacing of floors and walls and for general bonding.

Advantages

- * Greatly improved adhesion to a wide range of substrates
- * Mixes may be applied in much thinner sections.
- * Excellent resistance to water and water vapour.
- * Improved toughness and flexibility.
- * Better chemical resistance.
- * Reduced water/cement ratio for better workability.
- * Can be used outdoors.
- * Suitable for contact with potable water.

Typical applications

- * Floor screeds and toppings
- * Bonding of new to old concrete / mortar
- * Concrete repairs
- * Water resistant mortar and concrete
- * Corrosion protection for steel reinforcing
- * Waterproof internal linings for pools and tanks
- * Thin section repairs to farmyards and silage pits
- * Protective wall coatings to silage pits
- * Water resistant cement slurries for all concrete surfaces

Typical Properties

Total solids	47%
Specific gravity	1.01
Ph	9.5
Adhesion to steel	1.6 N/sq mm
Adhesion to concrete	3.4 N/sq mm
Tensile strength	4.3 N/sq mm
Compressive strength	50 N/sq mm
Flexural strength	13.2 N/sq mm

Water vapour Permeability Control Bondcrete/Cement, grammes/sq mt/24 hr: 46.9 1.9

Instructions for use

(A) Bondcrete Polymer as a water resistant slurry coat

Surfaces to be treated should be clean, free from oil and loose or friable material. Concrete should be slightly roughened and pre dampened. Add 3-4 parts of fresh OPC to 1 part **Bondcrete** and mix to a smooth slurry. Apply in 2 coats to the surface with a clean paintbrush. Coverage rate: 4-5 sq mt per litre of **Bondcrete**.

(B) Bondcrete Polymer as a bonding agent

For optimum adhesion Bondcrete should be used in conjunction with cement (OPC). Prior to placing screeds or renders, a slurry coat of 1 part Bondcrete : 2 parts OPC, should be vigorously brushed into the dampened surface. Toppings should be applied while the slurry is still tacky. *NB: If the slurry dries prior to the application of the topping, it must either be removed or scored and re-applied.*

(**Bondcoat UF** Epoxy primer may be used in place of a Bondcrete slurry. Please refer to relevant method statement for further information)

Bondcrete Polymer

Admixture for screeds and renders

(C) Bondcrete Polymer in thin section floor screeds

Mechanically prepare the floor to remove laitance and apply the Epoxy primer or the slurry bonder as in "B".

Apply the following mix:

Cement 25kg

Sharp washed sand 75kg

Bondcrete 4 - 5lt

Water as required. (Yield approx. 0.05 cu mt)

The correct consistency is best described as a crumbly mix that remains cohesive when squeezed together. The minimum application thickness should be 12mm while the maximum thickness should not exceed 35mm, except to compensate for surface undulations of up to 50 mm.

NB: All screeds should be cured using a proprietary curing agent or else polythene sheeting. The curing must commence as soon as the screeding has been completed.

(D) Bondcrete Polymer in floor screeds in excess of 35mm

Mechanically prepare the floor to remove any laitance and apply the Epoxy primer or the slurry bonder as in "B".

Apply the following mix:

Cement 25kg

Sharp washed sand 37.5kg

6-10mm aggregate 37.5kg

Bondcrete 2 - 4lt, Water as required

Mix to a semi dry consistency. For screeds over 40mm up to 50mm, reduce the **Bondcrete** by 25%. Cure as in "C" above.

(E) Bondcrete Polymer in renders

Damp the substrate and prime using either the slurry bonder as in "B" or for dense concrete, by applying a scud coat with 5 lt of **Bondcrete Polymer** added, per 25 kg of cement.

(i) For standard renders over moderately strong backgrounds such as brickwork or blockwork:

Cement 25kg

Moist sand 110kg

Bondcrete 5lt. Water as required

(ii) For renders over strong backgrounds such as dense concrete or for carbonation protection, (first apply a scud coat with 2:1 sand/OPC, containing Bondcrete as outlined above)

Cement 25kg

Moist sand 110kg

Bondcrete 5lt Water as required

Health and safety

Bondcrete Polymer is not regarded as hazardous. For normal spillages washing with water is adequate. Contact with skin may cause irritation. Wash with soap and water. Contact with eyes should be washed with copious amounts of water and medical help should be sought.

Bondcrete Polymer is manufactured in accordance with ISO 9002 and BS 5750

Construction Chemical Supplies endeavors to ensure that the above data and any further advice is correct, however, it cannot accept any direct or indirect liability for the use of its products as such usage is beyond its control.

For further information contact the technical department at:

*Specialists in concrete treatments
and chemicals for Construction,
Engineering and Agriculture*



P: (01) 450 3896 **E:** info@constructionchemicals.ie
Unit 219, JFK Industrial Estate, Dublin D12 EK15, Ireland
www.constructionchemicals.ie