

Builda-AR-Bond



We Create Better Future

General Purpose bonding agent admixture and Primer

Description:

AR-Bond is a synthetic resin polymer which is supplied as a ready to use liquid. It is designed to improve the qualities of site-batched cementitious mortars and slurries. It is ideal for internal and external applications in conjunction with cement.

Uses:

- Improving adhesion of thin section cement patches, mortars and screeds to their substrates.
- Improving tensile and flexural strengths of sand/cement mixtures thus permitting thinner than usual layers.

Benefits:

- Single-component liquid can be easily gauged as required. Improves mortars to provide waterproof repairs, renders and toppings that are highly resistant to freeze/thaw cycling. Improves tensile and flexural properties allowing thin applications.
- Improves cohesion and workability.
- Excellent bond to concrete, masonry stone-work and plaster.
- Contains no chlorides
- Can be applied to damp substrates.

Surface Preparations:

Any surface to be screeded, plastered or patched must be thoroughly clean and sound. It must be free from grease, oil and any other foreign matter. Laitance, dust, loose particles and any spalling surface must be removed. Porous surfaces such as concrete brickwork must be thoroughly dampened to kill suction. Soaking should continue for some 12 hours prior to an application being made. At the time of the application no free water must be present on the surface.

PROPERTIES DURING USE

Consumption

As an ADHESIVE SLURRY:

±700 ml Builda AR- Bond/m² (Figures are approximate). For best results add 1 – 1.5 liters of AR-Bond/m², for 12 mm screed.

PROPERTIES OF FINAL MATERIAL

TENSILE STRENGTH improved by ±40% and FLEXURAL STRENGTH improved by ±45% using 3:1 sand cement mortar.

CHEMICAL RESISTANCE:

This is not improved over the performance of normal cementitious materials.

Newly laid surface must be kept damp for at least 5 days to promote good curing of the Portland cement.

SOLVENT RESISTANCE: AR-Bond is attacked by solvents.

BONDING/PRIMING:

(ADHESIVE SLURRY FOR PRIMING)

The gauging liquid consists of equal volumes of AR-Bond and clean potable water.

Adhesive slurry is made from equal parts of clean dry sand (up to 3 mm particle size) and ordinary and OPC. These are dry mixed and then gauged with sufficient gauging liquid to give a viscous but easily brushed consistency. The slurry is brushed well into the pre-dampened substrate using a stiff broom or brush.

Specification:

Consistency	Milky Liquid
Density	1.00 g/cm ³
Colour	Wet: milky white Dry: Translucent clear
PH value	10-10.5
Dilution	Clean Water
Volume Solids	47%

Builda-AR-Bond



We Create Better Future

MIXING:

Stir well before use.

COVERAGE:

Dependent on application and thickness of application.

APPLICATION:

Preparation and Placing of Mortar

The gauging liquid composition will vary depending upon the thickness of the mortar layer to be placed. Mortars up to 12 mm thickness are gauged with 1-1.5 Volume AR-Bond to 1 volume water. Mortars between 12 - 20 mm thicknesses are measured with 1 volume AR-Bond to 2 volumes water. Mortars exceeding 20 mm thickness are gauged with 1 volume AR-Bond to 3 volumes water. Mortars are ideally mixed in a pan mixer and mixing times should not exceed 2 minutes to keep air entrapment to a minimum. The mortar is applied to the still wet slurry, consolidated, levelled and smoothed following good plastering or screeding practice. Finishing is made easier if tools are wetted from time to time with Builda Latex.

CLEANING:

Tools, brushes and mixing equipment should be cleaned immediately after use and before material set.

PROTECTION ON COMPLETION:

Newly applied mortar must be protected from rain, direct strong sunlight and wind since too rapid drying will produce shrinkage, cracking. The newly laid surface must be kept damp for at least 5 days to promote good curing of the Portland cement.

TEMPERATURE AND RELATIVE HUMIDITY:

Do not apply concrete / screeds if temperature is below 05° C.

PACKAGING:

5 L, 25 L and containers.

HANDLING & STORAGE:

This product has a shelf life of 24 months if kept in a dry cool place in the original packaging. In more extreme conditions this period might be shortened.

HEALTH & SAFETY:

Splashes into eyes should be washed immediately with plenty of clean water and medical advice sought. Cured AR-Bond is inert and harmless.

IMPORTANT NOTE:

The information given in this data sheet is based on current development work and many years of field experience. Whilst every effort is made to ensure that the information is reliable, we cannot accept responsibility for any work carried out with our materials as we have no controls over methods of applications, site conditions etc. In view of the continuing research and development being undertaken in our laboratories we advise customers in their own interest to ensure that this data sheet has not been superseded by a more up-to-date publication. All products are sold subject to our standard conditions of sale which are available on request. Field services, where provided, does not constitute supervisory responsibility. For additional information, please contact your local Builchem representative.