

Light-weight block adhesive mortar

Description

Arki-Bond C14 is a thin bed, polymer-modified cementitious adhesive mortar for laying/fixing aerated blocks and other similar masonry blocks and units.

Arki-Bond C14 is chemically modified and only requires the addition of clean water to provide a high performance thin-bed adhesive.

The raw materials used in manufacturing Arki-Bond C14 were carefully chosen to enhance the mechanical properties and thermal insulation of the product and provide the most effective application properties.

Advantages

- Excellent workability.
- High bond strength.
- Slump-free consistency, no sag.
- Shrinkage resistant.
- Easy to mix.
- Suitable for tropical and hot climate conditions.

Standard compliance

Arki-Bond C14 complies with BS EN 12004 as C2.

Product working properties*

Type:	Pre-mixed cementitious powder
Mix ratio:	~5.5 litres of cold clean water per 20 kg bag
Bulk density:	1.50 kg/l
Wet density:	1.80 kg/l
Pot life:	2 hours
Open time (EN 1346):	20 minutes
Adjustability:	15 – 20 minutes

Product performance properties*

Tensile adhesion strength (EN 1348):	1.6 MPa (after 28 days)
--------------------------------------	-------------------------

Shear strength:

1.0 MPa (after 7 days)
1.9 MPa (after 28 days)

Compressive strength:

17 MPa (after 7 days)
27 MPa (after 28 days)

Shore 'D' hardness: 75 - 80

* Values are valid at ambient temperature of 23°C and at 55% relative humidity.

Directions for use

Substrate preparation

The lightweight blocks should be cleaned using a brush to remove any dust or loose particles. The suction of the blocks should be neutralized by applying clean potable water on them. Free water on the surface should be allowed to disperse before applying Arki-Bond C14.

Mixing

Arki-Bond C14 should be added slowly to 6 litres of clean water during mixing. It is recommended to use a mixing paddle attached to a slow speed electric drill for at least 2 minutes until the material becomes smooth in consistency and slump-free. Allow the material to saturate for 5 - 10 minutes before use.

Application

The mixed Arki-Bond C14 is applied to the prepared Block surface with a trowel and then combed through a suitably sized serrated trowel in straight ribs to give ribbed adhesive bed.

After applying Arki-Bond C14 and within the open time, lay the block and push into mortar to form uniform vertical joints with minimum gap. Point all the horizontal joints when mortar has set to thumb print hard.

Curing

For most ambient conditions no special curing is required. In fast drying conditions, such as direct sun or warm strong winds, mist spraying should be applied 3-4 times a day for at least 3 days.

Yield

A 20 kg bag of Arki-Bond C14 mixed with 5.5 litres of water yields in approximately 14 litres of mixed adhesive.

Cleaning

Clean tools with water before hardening of the adhesive.

Storage and shelf life

Arki-Bond C14 has a minimum shelf life of 12 months when stored in dry warehouse conditions in unopened, undamaged original bag. Storage should be away from direct sunlight in ambient temperature between 5°C and 35°C.

Packaging

20 kg bags

Safety precautions

Arki-Bond C14 is a non-flammable material and not classified as a hazardous material under current legislations.

The cement content of the product may cause irritation to the skin and eyes. Therefore, unnecessary contact with the product is to be avoided and suitable gloves and goggles must be worn.

Accidental contact of Arki-Bond C14 to the skin or eyes should be washed off with clean water. In the event of prolonged irritation, seek medical advice.

Do not dispose into water or soil. Dispose the material according to local regulations.

For further information refer to the material safety data sheet.

Technical support

Arki provides assistance to its customers and gives site support, consultations and technical advice on concrete repair, surface preparation and treatment, tile adhesive and tile grout selection, tile installation techniques and maintenance of different types of tiles.

Additional Arki products

Arki produces high quality products intended for use in construction activity, among these products:

- Concrete Admixtures
- Concrete repair materials.
- Mould release agents and curing compounds.
- Waterproofing materials.
- Flooring systems.
- Protective coatings.

Product Quality

All Arki products are manufactured under an independently certified quality management system to conform to the requirements of the international standards.