

# Arki®-Bond C10

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Version: 1  
Edition: 1



## High performance tile adhesive for ceramic and porcelain

### Description

Arki-Bond C10 is a polymer-modified cementitious tile adhesive formulated to be mixed with water to provide a high performance thin-bed adhesive for a wide range of floor and wall ceramic and porcelain tiles.

The raw materials used in manufacturing Arki-Bond C10 (Portland cement, graded silica sand, polymeric materials and selected fillers and chemicals) were carefully chosen to enhance the mechanical properties of the product and provide the most effective application properties.

### Advantages

- Excellent application properties.
- High bond strength.
- Slump-free consistency, no sag.
- Long open time.
- Used for both floor and wall application.
- For interior and exterior use.
- Suitable for tropical and hot climate conditions.

### Standard compliance

Arki-Bond C10 conforms to Saudi standards 2093/02.

Arki-Bond C10 complies with BS EN 12004 as **C<sub>2</sub>TES<sub>1</sub>**.

Arki-Bond C10 conforms to Gulf Standards 1235/02.

### Product working properties

|                      |                                                                                |
|----------------------|--------------------------------------------------------------------------------|
| Type:                | Pre-mixed cementitious powder                                                  |
| Mix ratio:           | ~ 6 litres of cold clean water per 20 kg bag                                   |
| Bulk density:        | 1.55 kg/l                                                                      |
| Wet density :        | 1.85 kg/l                                                                      |
| Pot life :           | 2 hours                                                                        |
| Open time (EN 1346): | 20 minutes                                                                     |
| Set time :           | 1 day(ready for grouting)<br>2 days (light traffic)<br>14 days (heavy traffic) |

### Product performance properties\*

|                                      |                                                   |
|--------------------------------------|---------------------------------------------------|
| Tensile adhesion strength (EN 1348): | 1.8 MPa (after 18 days)                           |
| Shear strength:                      | 0.9 MPa (after 7 days)<br>1.7 MPa (after 28 days) |
| Compressive strength:                | 14 MPa (after 7 days)<br>20 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

All surfaces must be clean, sound and free from and loosely adhering particles. Cement laitance must be removed. Wire brush, sand-or water-blast or grinding may be used to clean substrate.

All substrate must be with deflections not to exceed 1/360 of the span.

Concrete substrates must be at least 3-4 weeks old, depending on climate.

### Mixing

Arki-Bond C10 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 become smooth in consistency and slump-free. Allow the material to substrate for 5-10 minutes before use.

### Application

The mixed adhesive is applied to the prepared surface with a trowel and then combed through a suitably sized notched trowel in straight ribs to give ribbed adhesive bed.

After applying the adhesive and within the open time, bed the tiles in firmly with a slight twisting action the require contact with the prepared

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Substrate. If the applied adhesive is out of open time (skin formation), re-trowel the adhesive with the notched trowel.

Use the correct cross spacer to control joints. Ensure that there are no voids under the tiles and they are fully supported by the adhesive. Clean off excess adhesive from the tile face and the grout lines with a damp cloth before it sets. The adhesive must not be disturbed for at least 24 hours.

## Yield

A 20 kg bag of Arki-Bond C10 mixed with 6 liters of water yields in approximately 14 liter of mixed adhesive.

## Cleaning

Clean tools with water before hardening of adhesive.

## Storage and shelf life

Arki-Bond C10 has 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 C10 is a non-flammable material and not classified as 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 C10 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 datasheet.

## 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-Product

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

- Concrete Admixtures
- Concrete repair materials.
- Mould release agents and curing compounds.
- Waterproofing materials.
- Flooring system.
- Protective coating.

## Product quality

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