

Premium cementitious tile adhesive for totally submerged conditions.

Description

Arki-Bond UW is a polymer-modified cementitious tile adhesive formulated using Portland cement, graded silica sand, polymeric materials, selected property-improvers, fillers and chemicals.

Mixing Arki-Bond UW with water provides durable thin-bed adhesive for ceramic tiles used in swimming pools and all other areas subjected to continuous contact with water.

Advantages

- Excellent water resistant.
- Ideal for swimming pools.
- High bond strength.
- Slump-free consistency, no sag.
- Suitable for all kinds of ceramic tiles.
- Suitable for tropical and hot climate conditions.

Standard compliance

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

Product working properties*

Type:	Pre-mixed cementitious powder
Colour:	White/Grey
Mix ratio:	~6 litres of cold clean water per 20 kg bag
Bulk density:	1.60 kg/l
Wet density:	1.90 kg/l
Pot life:	2 hours
Open time (EN 1346) :	15 minutes
Adjustability:	10 – 15 minutes
Set time:	1 day (ready for grouting) 2 days (light traffic) 14 days (heavy traffic)

Product performance properties*

Tensile adhesion strength (EN 1348):	2.0 MPa (after 28 days)
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Shear strength:

1.2 MPa (after 7 days)
2.1 MPa (after 28 days)

Compressive strength:

16 MPa (after 7 days)
23 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 any loosely adhering particles. Cement laitance must be removed. Wire brush, sand- or water-blast or grinding may be used to clean the substrate.

All substrates 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 UW should be added slowly to about 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 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 to achieve the required contact with the prepared 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 UW mixed with 6 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 UW 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 UW 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 UW 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.