

Polymer modified, flexible cementitious waterproofing coating

Description

Arki-Proof L250 is a two-component, polymer-modified cementitious coating. Component A is a white emulsified polymer solution and component B is a select blend of cementitious ingredients and dry-admixtures.

Arki-Proof L250 is a waterproofing membrane which acts as an effective barrier to water and moisture with appropriate flexibility to brig surface dynamic hair-cracks.

Arki-Proof L250 is simply applied by stiff brush, roller, trowel or spray equipment to obtain the desired coverage.

Key functions

- Waterproof membrane for water retaining structures as water reservoirs, culverts and canals.
- Sealing of swimming pools, abattoirs, bathrooms, etc.
- Waterproof coating for roofs.
 - Protective coating for concrete foundations.
- Protect atmospherically exposed reinforced concrete.

Advantages

- Flexible, can accommodate substrate cracks.
- Effective barrier to chlorides, sulphates and carbon dioxide.
- Excellent bond strength even after prolonged contact with water.
- Excellent consistency and easy application.
- Good abrasion resistance.
- Long workability.
- Resists salt intrusion.
- Solvent-free and non-flammable.

Product properties*

Mix type	Polymer modified cement-based material.
Mixing ratio:	Factory proportioned.
Mix colour:	Grey (white grade can be manufactured on request)

Wet density:	1.65 kg/l
Pot life:	4 hours
Application temperature:	5 - 45°C
Static-crack accommodation:	≤0.6 mm
Dynamic crack-accommodation:	≤0.3 mm
Tensile strength:	≥4.0 MPa
Elongation at break:	≥20%
Bond strength:	≥2.0 MPa
Shore 'D' hardness:	~35

* Values are valid for material cured for 14 days and tested at ambient conditions of 23°C and at 55% RH.

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.

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

Pre-wet the substrate and allow surface water to dissipate before application. Do not apply Arki-Proof L250 in ambient temperatures below 5°C.

Mixing

Arki-Proof L250-Part A (Powder) should be added slowly to Part B (Liquid) during the mixing process which should be carried out using a mixing paddle attached to a slow speed power drill of 300 to 600 rpm. Mixing should remain for at least 2 minutes until the material becomes smooth in consistency, even in colour and free from lumps.

Depending on the application technique, additional 0.20 -0.30 litres of water may be added to adjust consistency.

Application

Mixed Arki-Proof L250 is applied to the prepared surface with high quality brushes, rollers or spray equipment.

Arki-Proof L250

Two coats are recommended for maximum performance. Recommended thickness per coat is 500 microns.

For applications where coating will be subjected to immersion, a 14-day cure is recommended.

Packaging

Arki-Proof L250 Powder: 17.5 kg
Arki-Proof L250 Liquid: 7.5 L
Both are packed in 25 L sealed pails.

Coverage

Coverage of 25 kg pail of Arki-Proof L250 when applied in two coats at a thickness of 1 mm:

Spray applied: 19 m².
Brush applied: 17 m².
Trowel applied: 15 m².

Above quantities are approximate and are given for estimating purposes only.

Cleaning

Arki-Proof L250 should be removed from tools and equipment immediately after use with water. Hardened material can be removed mechanically.

Storage and shelf life

Arki-Proof L250 has a shelf life of 12 months when stored in a dry place and good warehouse conditions in unopened, undamaged original packaging. If stored at high temperatures and/or high humidity conditions, the shelf life may be reduced.

Safety precautions

The two components of Arki-Proof L250 are non-flammable materials.

Arki-Proof L250 is 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-Proof L250, powder or liquid, 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 all aspects related to specifications and application methods of construction chemicals and building materials.

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.
- Tile adhesives and coloured grouts.
- Flooring systems.
- Protective coatings.

Product Quality

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



P. O. Box 301100
Riyadh 11372, Saudi Arabia
Mobile: +966 54 7673235
e-mail: info@arkichem.com

Users should always refer to the most recent issue of the product technical data-sheet for the product concerned, copies of which will be supplied on request.
Arki products are guaranteed against defective materials and manufacture and are sold subject to Arki standard terms and conditions of sales.
Because the storage, handling and application of these products are beyond our control, we can accept no liability for the results obtained.