

Arki-kote E420[®]

ID: G6-420
Version: 1
Edition: 1



High-build, epoxy coating for water industry

Description

Arki-Kote E420 is a two-component, high-build, corrosion protection epoxy resin lining.

Arki-Kote E420 is moisture tolerant, solvent-free, and cures to give a hard, smooth coating with excellent water resistance and long term durability.

Arki-Kote E420 is supplied in pre-measured quantities ready for use as lining, waterproofing, and protection to concrete and steel structures in aggressive immersion conditions.

Uses

- Potable water retaining structures.
- Silos and reservoirs of foodstuffs.
- Water treatment stations.
- Food processing plants.

Advantages

- High build application properties.
- Excellent Abrasion Resistance.
- Available in two colours; Blue and White.
- Self-priming.
- Smooth, easy to clean.

Standard compliance

Arki-Kote E420 complies with BS 6920.

Product properties*

Type:	Solvent free epoxy-based coating
Colour:	Blue, White
Mixing ratio:	Factory proportioned
Solid content:	100%
Recommended film thickness:	2 coats, 200 microns each
Pot life (ASTM C2471):	60 minutes @23°C 30 minutes @35°C
Cure time (ASTM D1640):	
Dry to touch:	6-8 hours @23°C 3-5 hours @35°C
Recoat:	8-24 hours @23°C 4-12 hours @35°C

Full cure: 7 days @23°C
5 days @35°C

Coverage: 5 m²/litre @ 200 microns

Bond strength (ASTM D4541): >2.5 MPa

Water absorption (ASTM D570): < 0.01%

* 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 concrete surfaces to receive Arki-Kote E420 should be grit blasted to remove all foreign matter and provide a suitable key for Arki-Kote E420.

Blow holes and surface imperfections should be filled with Arki-Dur F.

Steel substrates should be grit blasted to surface quality of SA 2½ in accordance to BS 7079 and ISO 8501 followed by the application of one coat of Arki-Primer EP7.

Mixing

It is important to remember that this coating has a limited pot life. Therefore it is recommended to check and make sure everything is in order before starting the mixing sequence.

Empty the contents of the Part "B" entirely into the can of Part "A" Resin. The Part "A" container is oversized to allow for easy mixing.

Mix with a low speed jiffy mixer, until completely blended. This will take about 2 to 3 minutes. Be careful not to introduce any air bubbles while mixing. Make sure the contents are completely mixed to avoid any weak or partially cured spots in coating. During the mixing operations, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once to ensure complete mixing. Mix only that quantity that can be used within the pot life.

Application

Apply the mixed Arki-Kote E420 uniformly to the prepared surface using a short napped mohair roller at a spread rate of 5 m²/litre to yield 200 microns thickness. Take care not to puddle materials and

insure even coverage. Allow to cure 24 hours minimum before opening to traffic.

Note: Epoxy materials will appear to be cured and dry-to-touch prior to full chemical cross-linking. Allow epoxy to cure 5-7 days prior to exposure to water or other chemicals for best performance.

To insure proper system cure and performance, do not mix part packs and do not add solvent at any stage.

Packaging

4.0 Litre packs

Coverage

4.0 L pack of Arki-Kote E420 cover 20 m² in one coat of 200 microns. This is an approximate spread rate given for estimating purposes only.

Cleaning

Clean up mixing and application equipment immediately after use. Use Arki-Solv 1.

Storage and shelf life

Arki-Kote E420 components have 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-Kote E420 are non-flammable materials.

Spillages of component products should be absorbed onto earth, sand or other inert material and transferred to a suitable vessel. Disposal of such spillages or empty packaging should be in accordance with local regulations.

Arki-Kote E420 should not come in contact with skin or eyes. Avoid prolonged inhalation of vapours. Some people are sensitive to epoxy resins, hardeners and solvents. Gloves, goggles and barrier cream should therefore be used. Ensure adequate ventilation and if working in enclosed areas, suitable breathing apparatus is recommended.

If mixed resin comes in contact with skin, it must be removed before it hardens with a resin removing cream or with soap and water. Do not use solvent. Contamination of skin with any of the Arki-Kote E420 components should be removed immediately with soap and water.

Should accidental eye contamination occur with any of the above products, wash well with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately. Do not induce vomiting.

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.
- Waterproofing materials.
- Protective coatings.

Product Quality

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



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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.