

Arki-Top E80[®]

ID: G5-E80
Version: 1
Edition: 1



High-build, solvent-free epoxy floor coating

Description

Arki-Top E80 is a two-pack solvent-free epoxy resin based floor coating of medium viscosity.

Arki-Top E80 provides a smooth surface finish in a range of colours. It has excellent abrasion and chemical resistance and provides a heavy-duty coating for floors, which will withstand many years of traffic.

Uses

- Chemical and pharmaceutical plants.
- Aircraft hangars.
- Hospitals.
- Power plants, turbine areas, etc.
- Laboratories.
- Restaurants.
- Offices and corridors.
- Food processing Plants and Slaughterhouse.
- Commercial kitchens.

Advantages

- Solvent-Free Epoxy System.
- Excellent Chemical Resistance.
- Can be made non-slip for wet areas.
- High Compressive Strength.
- Easy to clean.
- Excellent Abrasion Resistance.
- High resistance to a wide range of chemicals.

Product properties*

Type:	Solvent free epoxy-based floor coating
Mixing ratio:	Factory proportioned
Solid content:	100%
Specific Gravity:	~ 1.65
Recommended film thickness:	2 coats of 200 microns each
Compressive strength:	70 MPa
Flexural strength:	40 MPa
Tensile strength:	20 MPa
Pot life (ASTM C2471):	40 minutes @23°C 20 minutes @35°C
Cure time:	
Dry to touch:	8-10 hours @23°C 4-6 hours @35°C
Recoat:	8-36 hours @23°C 4-18 hours @35°C

Light traffic:	24 hours @23°C 18 hours @35°C
----------------	----------------------------------

Full cure:	7 days @23°C 5 days @35°C
------------	------------------------------

Chemical resistance:

Hydrochloric acid 35%, Nitric acid 25%, Phosphoric acid 50%, Sulphuric acid 50%, Citric acid 25%, Lactic acid 10%, Sodium hydroxide 50%, Saturated sodium chloride solution, Petrol, Distilled water, Detergents, Kerosene, Brake fluid, Skydrol, Diesel.

Coverage:	5 m ² /litre @ 200 microns
-----------	---------------------------------------

Abrasion resistance

(ASTM D4060):	CS17 wheel, 1000 cycles, 90 mg lost
---------------	--

Bond strength

(ASTM D4541):	>3.0 MPa - concrete failure
---------------	-----------------------------

Shore 'D' hardness:	~80
---------------------	-----

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

Directions for use

Surface preparation

All surfaces to receive Arki-Top E80 must be structurally sound, flat, dry, clean and free of surface contaminants. Proper surface preparation is an extremely important factor in the immediate and long-term successful performance of applied Arki-Top E80.

Any surface irregularities or damage should be repaired using one of the Arki range of repair materials.

New concrete floors must be at least 4 weeks old and have a moisture content of not more than 5%.

Priming of good quality and sound concrete substrate is not normally required. For low strength and friable concrete surfaces, it is recommended to use Arki-Primer EP1 to consolidate the base.

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

Add Arki-Top E80 - Part B (Hardener) to Part A (Base). Mix with low speed drill and Jiffy blade for three minutes until the material becomes uniform and even in colour. To insure proper system cure and performance, do not mix part packs and do not add solvent at any stage.

Mixed material must be applied within the pot life.

Application

Apply the mixed Arki-Top E80 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.

Apply the second coat as soon as the first coat has initially dried.

Note: Epoxy materials will appear to be cured and dry-to-touch prior to full chemical cross-linking. Allow epoxy to cure 6-7 days prior to exposure to water or other chemicals for best performance.

Anti-slip Surface

Apply the first coat of Arki-Top E80. While the coat is still wet, a selected grade of Arki-Floor RUF is sprinkled onto it by hand or by any suitable broadcasting method at the rate of 1 kg/m². Excess of aggregate can be used if required to facilitate a good coverage of the substrate. Use of spiked shoes is advised while broadcasting the aggregate. Allow the base coat of Arki-Top E80 with aggregate to cure then remove all loose Arki-Floor RUF by either sweeping or preferably vacuum cleaning. Apply the second coat of Arki-Top-E80 and draw down the coat until the desired surface texture is obtained.

Packaging

4.0 Litre packs

Coverage

4.0 L pack of Arki-Top E80 cover 10 m² in two coats of 200 microns each. 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-Top E80 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-Top E80 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-Top E80 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-Top E80 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.



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.