Arki-Top E45

High performance solvent-based epoxy floor coating

Description
Arki-Top E45 is a high quality low viscosity two-component solvent-containing epoxy coating for application to new and existing concrete floors. It provides a smooth, easily cleaned surface, which is resistant to dirt, moisture, oil and many aggressive chemical environments.

Uses
- Hospitals and laboratories.
- Workshops and assembly plants.
- Dairies and soft drinks production plants.
- Areas of pedestrian and light vehicular traffic.
- Areas where resistance to chemical attack is required.
- Seal coat for Arki-Top TR range.

Advantages
- High resistance to a wide range of chemicals.
- Durable with good abrasion resistance.
- Will not harbour bacteria growth.
- Easy to clean.
- Can be made non-slip for wet areas.
- Decorative finish, available in a range of colours.

Chemical resistance:
- Sulphuric acid 10%, Citric acid 10%, Lactic acid 10%, Sodium hydroxide 10%, Hydrochloric acid 10%, Petrol, Distilled water, Detergents, Kerosene.

Coverage:
- 10 m²/litre @ 100 microns WFT

Abrasion resistance (ASTM D4060):
- CS17 wheel, 1000 cycles, 95 mg lost.

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

Pencil hardness (ASTM D3363):
- 2H

Directions for use

Substrate preparation
All surfaces to receive Arki-Top E45 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 E45.

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

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

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 E45 - 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.

Solid content:
- 60% (volume)

Specific Gravity:
- ~1.25

Recommended wet film thickness (WFT):
- 100 microns per coat
- 120 microns per 2 coats (recommended)

Application
Apply the mixed Arki-Top E45 uniformly to the prepared surface using brush or lambs-wool roller at a spread rate of 10 m²/litre to yield 100 microns WFT. 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.
Arki-Top E45

Packaging

4.0 Litre packs

Coverage

4.0 L pack of Arki-Top E45 cover 20 m² in two coats of 100 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 E45 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.

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.

Safety precautions

The two components of Arki-Top E45 are flammable materials. Do not expose to naked flames or other sources of ignition. Containers should be tightly sealed when not in use. In the event of fire, extinguish with CO2 or foam.

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 E45 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 E45 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.

For further information, refer to the material safety data sheet.

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.