

Epoxy resin based fairing coat and blow-hole filler

Description

Arki-Dur F is a two-pack solvent-free epoxy resin based fairing coat and blow-hole filler.

Arki-Dur F is specially formulated to meet mechanical stress in a range of service temperatures from 25°C to 60°C. The base component of Arki-Dur F is white coloured and the hardener is black to facilitate ease of mixing.

Uses

- Filling blow holes.
- Making fair slightly damaged concrete.
- Eliminating minor irregularities prior to epoxy coating or lining.
- For repair of structures that will be permanently submerged in water.
- As an adhesive for bonding pre-fabricated concrete segments.

Advantages

- Non-sag, can be applied to vertical surfaces and trowelled into blow holes.
- Smooth paste like consistency.
- Chemical resistant.
- Excellent bonding to concrete and GRC surfaces.
- Cures and hardens without shrinkage.
- Can be applied from feather edge to 8 mm.
- Manufactured for use in tropical climates.

Product properties*

Type:	Solvent free epoxy-based grey putty.
Mixing ratio:	Factory proportioned.
Solid content:	100%
Specific Gravity:	1.75
Recommended thickness:	Feather edge - 8 mm
Compressive strength:	75 MPa
Flexural strength:	35 PMa
Tensile strength:	20 MPa
Pot life (ASTM C2471):	60 minutes @23°C 30 minutes @35°C

Cure time:

Dry to touch:	8-10 hours @23°C 4-6 hours @35°C
Full cure:	7 days @23°C 5 days @35°C
Over-coating time:	8-36 hours @23°C 4-18 hours @35°C

Abrasion resistance

(ASTM D4060):	CS17 wheel, 1000 cycles, 80 mg lost
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Service temperature:

23°C

Bond strength

(ASTM D4541):	>3.0 MPa - concrete failure
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* Values are valid at ambient temperature of 23°C and at 55% relative humidity.

Performance standard

ASTM C 881- Type 1 & 4, Grade 3 Class B & C. Passes ASTM C 883 & ASTM C 884.

Directions for use

Substrate preparation

All surfaces to receive Arki-Dur F must be structurally sound, dry, clean and free of surface contaminants.

Proper surface preparation is an extremely important factor in the successful performance of applied Arki-Dur F and the subsequent epoxy coating. Oil and grease deposits should be removed by steam cleaning, detergent scrubbing or the use of a proprietary degreaser.

The surface should preferably be prepared using high-pressure water jetting or light abrasive blasting, followed by thorough washing to remove dust and remaining particles.

Steel substrates should be grit blasted to surface quality of SA 2½ in accordance to BS 7079 and ISO 8501.

Mixing

Add Arki-Dur F Part B (Hardener) to Part A (Base). Mix with hand or with low speed drill fitted with a suitable paddle 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 as this will prevent proper cure.

Application

To produce a smooth even finish, Arki-Dur F can be applied with a variety of tools such as trowel, scrapper or filling knife.

After mixing, material can be taken directly from the can, or sub divided into spot boards for individual applicators.

When Arki-Dur F is used as a fairing coat it can be over-coated with all Arki-Kote and Arki-Top ranges.

Any ridges left by the trowel can be brushed out while the material is still wet or ground down with a carborundum stone before over-coating.

As an adhesive for bonding pre-cast concrete segments, apply Arki-Dur F to one or both of the surfaces.

Packaging

1.0, 4.0 Litre packs

Coverage

4.0 L pack of Arki-Dur F cover 4 m² in one layer of 1 mm thickness. 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-Dur F 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-Dur F 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-Dur F 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-Dur F 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.