

# INDUFLOOR-EPF

## 2-COMPONENT EPOXY UNIVERSAL ADHESIVE (FILLER AND GROUT)

### Product Description:

- High tensile adhesion strength.
- High compressive and flexural strength.
- Resistant to a range of diluted acids, alkalis and solutions aggressive to concrete.
- Bonds to damp substrates.
- Hardens without shrinkage.
- Good deformability at low temperatures.
- Solvent free.

### Areas of Application:

INDUFLOOR - EPF is a thixotropic adhesive and smoothing compound and is for use on various substrates on floors, walls and overhead areas. INDUFLOOR - EPF can be used as an adhesive or smoothing compound for:

- Concrete slabs
- Screed boards
- Pre-cast concrete sections (e.g., Shaft rings)
- Bonding metals, ceramics and plastics
- Adhesive for ASO®-Tape-3000

Also suitable as a waterproof grout:

- As a smoothing compound for static cracks.
- As a rapid repair mortar for concrete areas.

### Technical Properties:

Basis	: 2-components epoxy-resin
Color	: grey and limited colors
Viscosity	: rowellable consistency
Density	: approx. 1.80 g/cm <sup>3</sup> at +23°C
Mixing Ratio	: 2:1 part by weight
Pot life	: approx. 60 mins at +23° C

Adhesive open time	: approx. 90 mins at +23° C
Minimum cure temp.	: +10°C
Overcoat after	: 16 hrs at 23°C
Full cure	: after min. 16 hrs, max. 24 hrs at +23°C
Light traffic/full load after	: 48 hrs/7 days at +23° C
Tensile adhesion strength	: approx. 2,5 N/mm <sup>2</sup> concrete failure
Flexural strength	: 30 N/mm <sup>2</sup> (DIN EN 196-1)
Compressive strength	: 60 N/mm <sup>2</sup> (DIN EN 196-1)

INDUFLOOR-EPF fulfils the requirements of the standard ASTM C-881 Type I and IV, Grade 3, Class B and C.

Cleaning : All work tools must be cleaned thoroughly with water or Thinner#17 at each interruption in work.

Packaging : 3 & 12 kg pack (Components are supplied at a predetermined mixing ratio).

Storage : Both components (A and B) can be stored for a minimum of 24 months in the

unopened container. Keep dry and above 0°C. If INDUFLOOR – EPF is stored below +10°C, component A can become “hard”. This condition is reversible by storing component A for 72 hours at above +25°C to a maximum of +30°C. Afterwards component A can be used again as given in the technical data sheet.

### Substrate Preparation:

The substrate to be treated must:

- be dry, load bearing and have a good key
- be free from separating and adhesion inhibiting substances, protected from reverse moisture penetration.
- Dependent on the condition of the substrate, use suitable methods of preparation e.g., Shot blasting, scabbling, planning, vacuuming or grit blasting.
- Steel surfaces must be treated to white metal (S 2½)

Appropriate to the particular substrate, the following additional criteria need to be fulfilled:

Cement-based surfaces:

- Quality of the concrete: min. C 20/25
- Quality of the screed: min. EN 13813 CT-C25-F4
- Age: min. 28 days
- Tensile adhesion strength: = 1.5 N/mm<sup>2</sup>
- Residual moisture: < 6% (CM, carbide method)

### Product Preparation:

Component A (resin) and component B (hardener) are supplied at a pre-determined mixing ratio. Add component B to component A. Ensure that the hardener fully drains from its container. Blending of both components is to be achieved with a suitable stirrer at approx. 300 rpm (e.g., drill with paddle). In the process it is important to stir from the sides and base so that the hardener is evenly distributed. Stir for long enough to achieve a homogenous mix (free from streaks); mix time approx. 3 minutes. The material temperature should be approx. +15°C during the mixing process. Do not use material from the supplied packaging. Decant the mass into a clean vessel and thoroughly stir through again. Avoid dragging air into the mix. Allow the mixed material to stand approx. 5 minutes before pouring so that any entrained air can escape.

### Application/Consumption (Adhesive):

INDUFLOOR-EPF is applied to the prepared substrate with a gauging trowel, smooth or notched trowel and evenly spread over the substrate applicable for the purpose.

Minimum adhesive bed thickness: 2.0 mm.  
Material consumption: approx. 1.80 kg/m<sup>2</sup> per mm thickness.

When bonding concrete units (shaft rings), remove excess adhesive with a trowel/spatula after each section has been positioned. As an anchoring grout, INDUFLOOR - EPF is installed into the prepared opening. Pay particular attention and carefully apply and compact to avoid voids.

### **Important Advice:**

- Higher temperatures shorten the working life. Lower temperatures extend the working life and setting time. Material consumption also increases at lower temperatures.
- The bond between the individual coats can be heavily impeded through the influence of moisture or contamination between successive applications.
- If there are long periods between coatings or if surfaces already treated with liquid resins are to be re-coated after a long period, then thoroughly clean and abrade the surface followed by a completely new pore-free coat. It is not sufficient simply to overcoat.
- Mortar systems must be protected for approx. 4 – 6 hours from dampness after application (e.g., rain, meltwater). Dampness produces a white discolouration and/or stickiness on the surface and can impede the cure. Discoloured and/or sticky surfaces should be removed, e.g., by abrading and renewing.
- Applications that are not clearly explained in his technical data sheet may only be carried out after consultation with and written confirmation from the Technical Services Department of AQUAFIN Pakistan.

**Please observe a valid safety data sheet.**