

## Kimitech EP-IS

ST7-0221

*Two-component, medium viscosity liquid epoxy resin*



### DESCRIPTION

**Kimitech EP-IS** is a two-component, medium viscosity, solvent-free liquid epoxy resin. It does not shrink during hardening that starts once mixed the two components.

**Kimitech EP-IS** has an excellent mechanical strength, it is suitable for alkaline environments and permanently in contact with water, it penetrates into cracks and macrofessure (around 1 mm thickness and bigger than 1 mm). It has excellent dielectric properties, it protects the reinforcement rods from stray currents. It guarantees a very good bonding to concrete and masonry supports.

The product is supplied in two pre-dosed containers (A + B), part "A" is oversized to allow an easy mixing procedure.

**Kimitech EP-IS** is CE marked as steel rods anchoring product according to the EN 1504-6.






### ADVANTAGES

- solvent-free; no shrinkage when hardening; excellent mechanical strength;
- high resistance in an alkaline environment and in permanent contact with water; excellent dielectric properties.

### USES

- Injection on cracked structures to restore the perfect structural monolithicity.
- Vertical and oblique anchorings with high resistance to extraction.

### APPLICATION

	Manual application		Complete curing time: 7 dd
	Pourable		Roll or brush application
	Gun application		

The surfaces must be perfectly dry, cured, free from inconsistent parts and dust, grease, paints and release agents in general.

Pour the component "B" (hardener) into component "A" (resin) and mix with a low speed drill (200-300 per minute) until you get a perfect mixture, taking care not to incorporate air during mixing.

In the case of fractional mixing, respect the proportions by weight (and not by volume) indicated on the packages. For injection work, use the proper **MM/TL** gun or low pressure pump.

In the case of anchorings or fillings on mixed masonry structures, where considerable dispersions may occur, the product can be loaded with **Kimifill** in order to make it less fluid.

### CONSUMPTION

1,4 kg of product per each litre of structure to be filled

### PACKAGING

- Com da Kg 6 (A+B).
- Com da Kg 24 (A+B).

### STORAGE

The product fears moisture, store in tightly closed containers, in a sheltered and dry place. In these conditions it maintains its stability for 24 months.

Characteristics	Value
Number of components	2 (A+B)
Density (A+B) EN ISO 2811-1	1,35 – 1,45 g/cm <sup>3</sup>
Frost time (200 g a 25°C)	20-30 mins
Complete hardening at 25°C	7 days
Min. Temperature of application	+5 °C
Limit operating temperature	-30 - +90 °C
Resin/Hardening ratio	100 / 20 in weight
Color	Beige
Viscosity (poises at 25°C)	8 - 10 (A+B)
Dry residue (A+B) UNI 8309	> 98 %
Compressive strength at 1 d EN 196-1	> 30 MPa
Compressive strength at 7 d EN 196-1	> 65 MPa
Flexural strength at 1 d EN 196-1	> 18 MPa
Flexural strength at 7 dd EN 196-1	> 30 MPa
Resistance to extraction (Pull-Out) at 28 dd	> 20 MPa
Adhesion to cured concrete at 28dd	> 3,5 MPa

the product.

Characteristics	EN 1504-6 limits "Steel reinforcement bars anchoring"	Typical data
Pull-out resistance of steel rods – movement under a load of 75 kN [mm] EN 1881	≤ 0,6	OK
Creep movement with a load of 50 kN for 3 months [mm] EN 1544	≤ 0,6	OK
Glass transition temperature [°C] EN 12614	≥ 40	43,7
Reaction to fire	Euroclass	F
Chloride ion content	≤ 0,05%	OK

## WARNING

Product intended for professional use.

Do not apply on wet or dusty surfaces. The equipment used for the preparation and laying of Kimitech EP-IS must be cleaned with **Solvente Epox** before hardening. The product must be handled with care: use protective gloves and goggles to avoid contact with skin and eyes. **Kimifill** quartz inert materials added in the product must be perfectly dry.

For further information and advice on safe handling, storage and disposal of chemical products, the user must refer to the most recent Safety Data Sheet, containing physical, ecological, toxicological and other data related to safety.

The information and requirements indicated in this Technical Data Sheet are based on our current knowledge and experience and are to be considered, in any case, purely indicative. They cannot guarantee the final result of the applied product and they have to be confirmed by exhaustive practical applications; therefore the user must test the suitability of the product for the intended application and its purpose. Users must always refer to the latest version of the local technical data sheet related to