

# K2 RESIGROUT

## POLYESTER RESIN GROUT

### Description:

K2 RESIGROUT is a premeasured, two parts, filled polyester resin grout. After hardening the grout, it produces anchorages of consistent reproducible values. K2 RESIGROUT is used where the difference between the hole diameter and bar diameter is < 25 mm. It is used in overhead or horizontal holes where the bar/hole relationship conforms to the product properties.

### Area of Application:

Used for high strength corrosion resistant anchoring of bolts and bars from 12 – 25 mm diameter into concrete, rock, masonry or brickwork where high speed of installation and early application of load is required. Permanent installation of reinforcement starter bars,

foundation bolts, base plates, balustrade, barriers and safety fences, railway tracks, tie-back anchors, reinforcement dwelling abutments, ground anchors for towers, cranes, and dock sills.

### Benefits:

- Gains Rapid strength.
- Resistant to vibrations and corrosion.
- Non expansive.
- Ideal for underwater placement

### Standard:

K2 RESIGROUT conforms to BS 4551, BS 5080, and BS 2782 standards.

### Technical Properties:

Properties	Results
Physical Appearance	Brown color viscous paste.
Gel time	22 Minutes
Compressive strength – 7 days	> 60 N/mm <sup>2</sup>
Flexural strength – 7days	> 12 N/mm <sup>2</sup>
Shear strength – 7days	24 N/mm <sup>2</sup>
Tensile strength – 7days	9 N/mm <sup>2</sup>
Mix Material Density	1.6 g/cc
Pull out strength	19.96 N/mm <sup>2</sup>

### Table Minimum Hole Depth Characteristic Concrete

Strength (N/mm <sup>2</sup> )	20	25	30	>40
Permitted concrete Shear Stress using Type One Bar (N/mm <sup>2</sup> ):	1.8	2	2.2	2.5

  

Bar Diameter (mm)	Yield (tones)	Hole Diameter	Minimum Hole depth (mm)			
12	5.2	20	280	250	225	200
16	9.3	20	490	445	400	335
20	14.5	25	615	555	500	440
25	22.6	32	750	675	615	540

Properties Gel Temp (°C)	Gel Time (min)	Minimum Time required before loading (hours)
20	80	7
30	40	3
40	15	1

## Application Instruction:

### SURFACE PREPARATION

- All surfaces to be treated must be a solid firm, dust free and clean.
- All Laitance should be removed by etching and wire-brushing.
- Surfaces contaminated with oil or grease, should be removed by using a strong industrial detergent or organic degreaser.
- A Surface should be washed thoroughly with water and dried before the application of K2 RESIBOND ER.

### MIXING PROCESS

The entire contents of the hardener can should be poured into the resin container and the two materials thoroughly mixed until a uniform color is obtained. To facilitate application at temperatures below 10 °C the separate components should be warmed in hot water to a maximum of 25 °C before mixing.

### COATING

Mixed K2 RESIBOND ER should be brush applied to the prepared surface. The new concrete should be placed within 6 hours at 30°C to the K2 RESIGROUT coated substrate, when it is in a tacky state.

### Limitations:

K2 RESIGROUT should not be applied when the temperature is below 10 °C.

### Coverage:

Approximately 2.6 m<sup>2</sup>/kg and dependent on the texture and porosity of the surface being covered.

### Packing:

- K2 RESIGROUT is available in 500 g Pack.
- Pack Contains: Part A Base Resin: 100gm (Liquid) & Part B Hardener: 400gm (Powder).

### Shelf Life and Storage:

K2 RESIGROUT has a shelf life of 12 months if stored under normal conditions below 35°C, in unopened condition.

### Health & safety:

Contact with skin and eyes should be avoided. Used gloves should be used when handling these products. If contact with the resin occurs, wash immediately with a strong detergent or a resin removing cream. Eye contamination must be immediately washed with plenty of water and medical treatment sought.

### FIRE

K2 RESIGROUT is inflammable. Keep the product away from open flames. Do not smoke during use.

### Technical Support:

The company provides a technical service supported by the team of specialist applicators in the industry.

## Important Note:

KONKEM Industries Private Ltd products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst KONKEM Industries Ltd endeavors to ensure that any advice, recommendation specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation or information given by it or its applicators.

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