

# K2 RESIBOND ER

## Brush Applied Epoxy Resin Concrete Bonding Agent

### Description:

K2 RESIBOND ER bond new cementitious materials to existing cementitious surfaces. K2 RESIBOND ER is based on solvent free epoxy resins with pigments and fine fillers. Available as a two part material in premeasured quantities for ready on site mixing and use. Pigmented components - white base and green hardener - provide visual evidence that adequate mixing is achieved.

### Area of Application:

For use on horizontal and vertical surfaces where mortar or concrete can be supported by formwork. Appropriate for extensions and repairs to structural concrete in buildings,

loading bays, bridges, roads, jetties, airport, pot holes, bonded or granolithic floor toppings etc.

### Benefits:

- Enables overlaying of concrete new up to 6 hrs. after applying K2 RESIBOND ER, without delimitation.
- Ensures high Bond strength that is more than the tensile strength of good quality concrete.
- Provides an excellent 'barrier coat' and limits the migration of chloride ions from host concrete.
- Overlay time designed up to 10 hours at temperatures from 10°C to 30°C.

### Technical Properties:

Properties	At 20°C	At 30°C
Pot life	5 - 6 Hours	2 -3 Hours
Full cure	7 Days	5 Days
Overlay Time	10 Hours	6 Hours
Compressive Strength	BS6319 Pt2 @ 7 days 50 N/mm <sup>2</sup>	
Flexural Strength	BS6319 Pt2 @ 7 days 35 N/mm <sup>2</sup>	
Tensile Strength	BS6319 Pt2 @ 7 days 20 N/mm <sup>2</sup>	
Shear Strength	BS6319 Pt2 @ 7 days 10 N/mm <sup>2</sup>	

### Adhesive strength to concrete:

In general the bond strength will always exceed the tensile strength of M30 grade concrete. K2 RESIBOND ER is based on solvent free epoxy resins with pigments and fine fillers available as a two part material in pre measured quantities for ready on site mixing and use. Pigmented components – white base and green hardener – provide visual evidence that adequate mixing is achieved.

### SPECIFICATION

K2 RESIBOND ER should remain tacky after an application for a minimum period of 6 hours at 30°C. There shall not be bond failure of the specimen when tested by the slant shear method to BS 6319 Pt. With M30 concrete.

### 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 RESIBOND ER coated substrate, when it is in a tacky state.

## **Limitations:**

K2 RESIBOND ER 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 RESIBOND ER Available in 1.5 kg packs.

## **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 application.

- Pack Contains - Part A – Base (0.900kg) & Part B – Hardener (0.600kg).

## **Shelf Life and Storage:**

K2 RESIBOND ER 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 RESIBOND ER 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.