

K2 RESIBOND ER

BRUSH APPLIED EPOXY RESIN CONCRETE BONDING AGENT



Bonds new cementitious materials to existing cementitious surfaces. 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 tarmacs, pot holes, bonded or granolithic floor toppings etc.

BENEFITS

- Enables overlaying of concrete new upto 6 hrs after applying K2 Resibond ER, without delamination.
- 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 upto 10 hours at temperatures from 10°C to 30°C.

PROPERTIES

	At 20°C	At 30°C
Pot life	5 - 6 hrs	2 - 3 hrs
Full cure	7 days	5 days
Overlay time	10 hrs	6 hrs

Compressive strength

BS 6319 Pt 2 @ 7 days 50 N/mm²

Flexural strength

BS 6319 Pt 3 @ 7 days 35 N/mm²

Tensile strength

BS 6319 Pt 7 @ 7 days 20 N/mm²

Shear strength

BS 6319 Pt 4 @ 7 days 10 N/mm²

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 premeasured quantities for ready onsite 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 application for a minimum period of 6 hours at 30°C. There shall not be bond failure of the specimen when tested by slant shear method to BS 6319 Pt., with M30 concrete.

APPLICATION METHOD

Preparation

All surfaces to be treated must be solid firm, dust free and clean. All laitence should be removed by etching and wire-brushing. In some cases, existing concrete should be chipped to a sound substrate. Surfaces contaminated with oil or grease, should be removed by using a strong industrial detergent or organic degreaser. Surface should be washed thoroughly with water and dried before the application of K2 Resibond ER.

Mixing

The entire contents of the hardener can should be poured into the resin container and the two materials thoroughly mixed until a uniform colour 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.

Packaging

Available in 2.5 kg packs.

Coverage

Approximately 2.6 m²/kg and dependant on the texture and porosity of the surface being covered.

STORAGE

Shelf life

12 months if stored under normal conditions below 35°C, in unopened condition.

Health and 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 a team of specialist applicators in the industry

Important note :

Jay Chemical Industries 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 Jay Chemical 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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