

KingBond® EPG10

Solvent free general purpose epoxy adhesive.

DESCRIPTION

KingBond EPG10 is a multi-purpose, two components, moisture tolerant, non-sag, solvent free epoxy resin adhesive.

APPLICATIONS

KingBond EPG10 is used for high strength fast set bonding adhesive for different material such as:

- ☒ Concrete metals, and wood.
- ☒ Timber joints and ceramics.
- ☒ Fixing laminates/veneers.
- ☒ Extruded polystyrene boards.
- ☒ Closed cell Polyethylene boards.
- ☒ PVC tiles.
- ☒ Permanent installation of reinforcement starter bars and dowel bars.
- ☒ Rubber.

ADVANTAGES

- ☒ Fast set.
- ☒ High bond strength.
- ☒ Bonds to most common building materials.
- ☒ Unaffected by water immersion.
- ☒ Easy application. (1:1 mixing ratio).
- ☒ High tensile and shear strength.

STANDARDS

KingBond EPG10 complies with AASHTO M237, Type II, slant shear bond strength and gel time and ASTM C881, Type I, II, IV, V, Grade 3, Class C.

METHOD OF USE

SURFACE PREPARATION

- ☒ All Substrate should be sound and dust free.
- ☒ Concrete surfaces should be dry and free of any laitance.
- ☒ Metals, steel, copper, brass etc. surfaces should be degreased abraded.
- ☒ Glass and ceramics should be degreased and abraded.
- ☒ Rubber surface should be treated for 4 minutes with sulphuric or nitric acid or abraded.
- ☒ Timber should be dry abraded.

TECHNICAL PROPERTIES

Colour of mixed material:	Dark grey
Pot life:	10 – 15 min
Bond strength: ASTM C882-99 (hard concrete to hard concrete @ 15oC)	> 9 MPa @ 2 days (moist cure) > 11 MPa @ 14 days (moist cure)
Bond strength: ASTM C882-99 (fresh concrete over hard concrete @ 25oC)	> 11 MPa @ 14 days (moist cure)
Mixed specific gravity:	≈ 1.5 ± 0.05
Compressive strength: ASTM D695-96	≥ 75 MPa @ 7 days
Compressive modulus: ASTM D695-96	≥ 1800 MPa @ 7 days
Slant shear bond strength: AASHTO T-237-73	> 30 MPa
Water absorption: ASTM D570-98	≤ 0.1%
Heat deflection: ASTM D648 @ 0.455 MPa	≥ 50oC

MIXING

One part of component A should be mixed to one part of component B. To avoid waste only mix sufficient quantities that can be used within the pot life. Components should be scooped from the tins and mixed together thoroughly using a spatula or palette knife in a suitable tin or board, until a uniform grey paste is obtained.

CLEANING

All tools should be cleaned immediately before the adhesive reaches initial setting using KingBond solvent.

PACKAGING

KingBond EPG10 part A is available in 1, 5 kg packs and 5 gallon pails. KingBond EPG10 part B is available in 1, 5 kg packs and 5 gallon pails.

COVERAGE

1.5 kg/m² @ 1 mm thick.

NOTE:

KingBond EPG10 setting time and pot life will vary depending on temperature and size of mix; extending at lower temperatures and smaller thicknesses of application.



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STORAGE

Shelf life is 1 year when stored under cover, out of direct sunlight and protected from extremes of temperature. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult KingKrete's Technical Services Department.

HEALTH AND SAFETY

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal containers after use. Use in well ventilated areas and avoid inhalation.

NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local KingKrete representative. KingKrete Inc. reserves the right to have the true cause of any difficulty determined by accepted test methods.

QUALITY AND CARE

All products originating from KingKrete's Middle East facility are manufactured under a management system independently certified to conform to the requirements of the quality standards ISO 9001, ISO 14001 and ISO 45001.

* Properties listed are based on laboratory-controlled tests.
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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this KingKrete Inc. publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by KingKrete Inc. either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not KingKrete Inc. are responsible for carrying out procedures appropriate to a specific application.

