

KingBond PVA100®

PVA bonding agent for cement mixes and concrete repairs.

DESCRIPTION

KingBond PVA100 is a single component PVA based, white viscous liquid, specially formulated for use as a multi-purpose adhesive and a bonding agent for cement mixes and as an admixture for mortars.

APPLICATIONS

KingBond PVA100 is ideally designed for use as multi purpose adhesive, cement admixture in cement base mixes and as primer and integral bonding agent for concrete. Ideal for priming surfaces prior to plastering or painting.

Used as an admixture in cement/sand and granolithic screeds.

ADVANTAGES

- 🔑 Single component, easy to use.
- 🔑 Bond many types of construction materials.
- 🔑 High bond strength provides excellent adhesion when used as bonding agent for cement based mixes.
- 🔑 No Chloride admixtures.
- 🔑 Improves renders and mortars durability.
- 🔑 Colour go to clear when dries.
- 🔑 Concentrated which make it economical.
- 🔑 Solvent free.

STANDARDS

KingBond PVA100 complies with ASTM C1059-99, Type 1, when tested in accordance with test method ASTM C1042.

METHOD OF USE

Substrate Preparation

Where KingBond PVA100 should be used, the Substrate Should be sound, clean and free from contamination.

Surface laitance should be removed by light Scrabbling or grit blasting.

Application

General purpose bonding agent:

Strong adhesive for many substrates such as bricks, carpets, stone, tiles and wood extruded polystyrene and many other types. Apply a thin film of KingBond PVA100 over the prepared sides to be adhered together, allow applied layer to become tacky prior to pressing each part and allow curing for approximately one day.

TECHNICAL PROPERTIES @ 25°C:

Appearance:	White viscous liquid
pH:	4 – 5
Specific gravity:	1.0 – 1.05
Slant shear strength: Type I (Dry curing) ASTM C1042	> 2.8 MPa
Stability:	Stable in alkaline conditions
Compatibility:	Compatible with all types of portable cement

Cement screeds and plasters bonding agent:

Porous surfaces should be sealed using diluted KingBond PVA100 (1 part KingBond PVA100 to 4 parts water) which should be brushed vigorously into the prepared surface making sure to fill all pores and voids and allow it to get dry. Apply Diluted KingBond PVA100 (1 part KingBond PVA100 to 1 part water) to the sealed surface using a brush. Make sure to apply the plaster or repair mortar whilst the applied coating is still tacky.

Sealer coat and dust proofing:

Diluted KingBond PVA100 (1 part KingBond PVA100 to 4 parts water) should be applied by brush over the target surface and allowed to dry.

Note: for porous surfaces other coat should be applied to assure appropriate seal.

Admixture in Cement/Sand screeds:

Use it as an admixture in cement/sand screeds in both light traffic and heavy traffic areas. Supposed mixes is as the following:

Component	Light traffic kg	High traffic kg
Cement	100	100
Sand	300	100
Granite (4 - 6 mm)	-	200
KingBond PVA100 2000	20	25

Prime the prepared surface with diluted KingBond PVA100 (1 part KingBond PVA100 to 4 parts water). The dry components should be mixed together. Add water to the mix to achieve a semidry mix and then add the KingBond PVA100 and mix, more water could be added to achieve the required workability. Lay the mix on the tacky primed surface, tamp it and smooth it using trowels.

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CLEANING

All tools should be cleaned immediately after application using fresh water. Hardened materials should be cleaned mechanically.

PACKAGING

KingBond PVA100 is available in 1 kg plastic buckets, 5 kg metal tin, and 200 kg drums.

COVERAGE

Bonding agent: 16 m² when diluted 1 to 1. Sealer coat: 25m² when diluted 1 to 4.
Admixture: 20 - 25 litre/100 kg Cement depending on use.

Note: The coverage rate differs from surface to another depending on the porosity of the surface.

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 manufacturing facilities are manufactured under a management system independently certified to conform to the requirements of the quality standard ISO 9001.

* 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.