

# Keybond

PVA bonding agent for cement mixes and concrete repairs



## Description

Keybond 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

Keybond 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

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

## Method of Use

### Substrate Preparation

Where Keybond should be used, the Substrate Should be sound, clean and free from contamination. Surface laitance should be removed by light Scrabbling or grit blasting.

### 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 Portland cement

## 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 Keybond 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.

### Cement screeds and plasters bonding agent:

Porous surfaces should be sealed using diluted Keybond (1 part Keybond 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 Keybond (1 part Keybond 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 Keybond (1 part Keybond 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:

# Keybond

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

Prime the prepared surface with diluted Keybond (1 part Keybond 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 Keybond 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.

## Cleaning

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

## Packaging

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

## Coverage

Bonding agent: 16 m<sup>2</sup> when diluted 1 to 1.

Sealer coat: 25m<sup>2</sup> 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

Keybond has a shelf life of 12 months from date of manufacture if stored away from direct sun light at a temperature of 25°C in original unopened packaging.

If these conditions are exceeded, DCP Technical Department should be contacted for advice.

## Cautions

### Health and Safety

Keybond should not be swallowed. Gloves and eye protection should be worn.

In case of accidental contact with eyes, immediately flush with plenty of water for at least 10 minutes and seek medical advice.

For further information refer to the Material Safety Data Sheet.

### Fire

Keybond is nonflammable.

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- ▲ Building products.
- ▲ Structural strengthening.

### Note:

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