

mart-KEYBOND

KEYING AND BONDING AGENT FOR PLASTERS AND CEMENTITIOUS PRODUCTS

DESCRIPTION

mart-Keybond, ready to use water base vinyl acetate copolymer emulsion specially designed for use in the building industry, **mart-Keybond** is a universal keying for plaster and bonding of cementitious materials. The use of **mart-Keybond** for Plaster offers improved adhesion to substrate, toughness, and flexibility as well as resistance to certain chemicals, also offers abrasion resistance in plaster and increased resistance to water penetration.

CHARACTERISTICS/ADVANTAGES

When applied as Bonding/Keying Agent:

- **mart-Keybond** re-wets when in contact with water or freshly applied cementitious products.
- Non-bond break when cementitious products are applied to dried **mart-Keybond** film.
- Easy to use single component.
- Improves bond of cement and gypsum.
- Economical – can be diluted up to 1:1 with water as plaster primer.

When mixed in to cementitious products as a partial water replacement:

- Good water resistance.
- Excellent abrasion resistance.
- Good resistance to many chemicals and oils.
- Prolonged corrosion resistance.
- Non-toxic.
- Improves flexibility.
- Reduces cementitious shrinkage.

TYPICAL USES

- Improves non-structural bond of concrete & cement mortar as well as gypsum plasters.
- Corrosion protection of steel when mixed to cementitious repair products as a partial water replacement.
- Non-Structural concrete repairs.
- Plastering.
- Tiling.



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APPLICATION PROCEDURE

Surface Preparation:

- Surface must be clean, free of oil and grease, old caulk, dirt, dust & other foreign material.
- Remove all loose material.
- Concrete must be structurally sound,
- For application on existing concrete, all loose particles must be completely removed.
- Wire brush and rinse surface if necessary.
- All porous surfaces should be thoroughly saturated (soaked) with clean water prior to application but free of standing / ponding water.

Mixing:

- Stir product well before use
- **mart-Keybond** can be added to mixing water of our range of repair mortars.
- Replace % of mixing water at a dosage ranging from 10% to 50% to improve bond, flexibility, shrinkage reduction as well as adding a measure of resistance to water penetration.

APPLICATION:

Keying agent for plasters and cementitious products:

- Concrete must still be fully saturated but free of standing / ponding water.
- Apply **mart-Keybond** liberally with a stiff brush or roller to the prepared floated off shutter concrete, plaster, fibre cement boards or gypsum boards.
- Plaster should ideally be applied while product is still tacky.

COVERAGE FOR ESTIMATING PURPOSE ONLY

10-15m²/L when applied to sound concrete surfaces. Coverage will vary depending on the texture and porosity of the surfaces that **mart-Keybond** is applied to.

Bonding Slurry:

- Mix 4-parts cement to 1-part **mart-Keybond** and 1-part water
- Thoroughly mix to a lump free consistency
- Do not apply slurry thicker than 2mm, multiple coats are recommended if a thicker coat is required.

Scratch Coat for concrete and brick surfaces:

For soffits and vertical applications.

- Mix 2-parts river sand or fine silica sand with 1-part cement
- Add **mart-Keybond** to the mix until desired consistency is achieved
- Apply scratch coat by trowel, block brush or even tyraline machine.
- Allow coat to dry, plaster as normal

Gypsum:

- **mart-Keybond** can be applied directly onto gypsum-based materials.
- apply liberally with brush or roller.
- plaster onto wet **mart-Keybond**
- If stronger application is required, replace 10-20% of the mixing water with **mart-Keybond**.

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TYPICAL PHYSICAL & CHEMICAL PROPERTIES

Colour	White Liquid
Density	1.01 to 1.05
Ph	6.5 to 7.5
Shelf life	12-month Shelf life if kept in the original unopened packaging.

LIMITATIONS

- Always use cool, clean fresh water for any mix.
- Do not allow modified mixes to dry out too rapidly as this may deny the cement sufficient time to hydrate completely and reduce overall final strength.

PACKAGING

mart-Keybond is available in 5, 25, 200 and 1000lt containers.

HEALTH AND SAFETY

- Contact with the skin should be avoided by wearing gloves, eye protection and protective clothing whilst application is in process.
- In case of eye contact flush eyes well with clean water and obtain medical advice immediately.
- Wash hands thoroughly after contact.
- Refer to **mart-Keybond MSDS** sheet.