

Arina-bond ABA 401

Acrylic based bonding agent and concrete adhesive

Introduction:

Arina-bond ABA 401 is single component product based upon modified acrylic resins. It is used in mortar and concrete as an admixture to increase resistance to water penetration, improve abrasion resistance and durability. It should be mixed with cement as a reliable water-resistant and confident bonding agent.

Where to use:

Arina-bond ABA 401 is formulated for use as concrete admixture and primer for all repair mortar and is especially recommended for vertical and overhead applications. It is also recommended as a curing aid, to reduce the incidence of early age cracking in repair patches, if applied immediately after completion of finishing and when the repaired area is protected from drying winds. The product can be used in the following applications:

- Concrete repair.
- Floor screeds and toppings.
- External rendering.
- Waterproofing and tanking.
- Fixing slip bricks and tiles.
- Corrosion protection for steel.

Technical information:

Appearance	Milky latex
Specific gravity (at 25 °C)	1.02 Kg./L
Adhesion	Excellent to concrete, steel, brick, etc.
Tensile bond strength	1.8 MPa. After 7 days

Advantages:

- Improves flexibility.
- Reduces shrinkage.
- Prevents bleeding.
- Increases durability and toughness of cementitious materials.
- High resistance to water penetration.
- Increases abrasion resistance.
- Good frost resistance and resistance to salt permeation.
- Excellent adhesion to steel, concrete, brick, glass, wood, expanded polystyrene and most building materials.
- Prolong corrosion protection.
- Similar thermal expansion and modulus properties to concrete.
- Non-toxic. Can be used with potable water.

How to use:

1- As concrete admixture:

Arina-bond ABA 401 is developed specifically for use with Portland cements. As ordinary mortar dries out, voids are left which make it permeable and weak. When **Arina-bond ABA 401** is added, particles bind together to form continuous films and block the voids and spaces, thus increasing strength and resistance to water penetration. The consumption rate is between 10 to 20 percent of cement weight.

2- As bonding agent:

Wet down absorbent surfaces, such as concrete, brick, stone, etc., ensuring that they are saturated but free of standing water. Prepare a bonding slurry comprising 2 parts of cement and 1 part **Arina-bond ABA 401** by volume, mix to a lump-free and creamy consistency slurry. Using stiff brush, work the bonding slurry well into the damp surface, ensuring that no pinholes are visible. Do not apply bonding slurry at a thickness in excess of 2mm. If a



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second coat is necessary, it must be applied after the first coat is touch dry. The second coat must be applied at right angle to the first coat to ensure complete coverage.

Surface preparation:

In any application, the substrate must be sound and free of loose particles. Remove dust, laitance, oil, grease, curing compounds, waxes, disintegrated and other bond inhibiting materials from the surface. Surface can be prepared by blasting methods, grinding, or wire brushing.

Limitations:

Minimum substrate temperature: +5 °C.

Maximum substrate temperature: +35 °C.

Cleaning:

Application tools and equipment can be washed with water before hardening. Cured material can only be removed mechanically.

Storage / Shelf life:

Store out of direct sunlight, and protect from extreme heat and rain fall. The shelf life for originally unopened package is 12 months from date of production.

Packaging:

Arina-bond ABA 401 is available in 4.0 and 10.0 Liter units.

Safety precautions:

Although *Arina-bond ABA 401* is not dangerous material, but while working with chemicals, use personal safety devices such as gloves and goggles. If contacted with eyes or mucous membrane, wash immediately with plenty of water and seek medical attention.