

Arina-bond EBA 201

Epoxy bonding agent for concrete repairs, adhering concrete to concrete and steel

Introduction:

Arina-bond EBA 201 is two component, permanent epoxy adhesive for indoor and outdoor bonding of renderings and concrete to concrete. It tolerates a degree of moisture before and during curing and is insoluble when cured. The ultimate bond strength is greater than the tensile strength of concrete. The product does not shrink and provides an even and stress-free bond.

Where to use:

Arina-bond EBA 201 is a suitable bonding agent for proper adhesion of fresh cementitious materials to concrete, stone, wood, steel, ceramic, and brick. It may be applied to clean, sound and durable surfaces, i.e. steel, glazed tiles and bricks, ceramic, terrazzo, tiles and floors. Also for dowel bars anchoring in wet holes and as a bonding agent for overlays and capping.

Technical information:

Appearance	Light gray paste (mixed) Comp. "A": Gray Comp. "B" : Amber
Mixing ratio	A : B = 4 : 1 by weight
Specific gravity (at 25 °C)	1.550 kg/l (mixed)
Bonding strength	2.5 MPa (Concrete failed)
Compressive strength	60 MPa (7 days)
Tensile strength	20 MPa (7 days)
Flexural strength	30 MPa (7 days)
Service temperature	-35 to +65 °C
Full cure	After 7 days (at 25 °C)
Tack free	6 hours (at 25 °C)

Advantages:

- Excellent adhesion to concrete and most construction materials.
- Tolerant of moisture before, during, and after cure.
- Excellent early and final mechanical strengths.
- Excellent chemical resistance.
- Color coded components to ensure proper mixing control.
- Easy to apply.
- Low odor and user friendly.
- Suitable for both, dry and wet surfaces.
- No shrinkage while curing.
- Will not corrode reinforcement.
- Suitable for use in vertical and overhead applications.

Surface preparation:

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. Clean concrete surface with vacuum cleaner before applying *Arina-bond EBA 201*.

When using high pressure water jet for preparation, no standing water should exist.

Mixing:

Stir each component separately. Add component "B" to Component "A" and mix them thoroughly using a low speed drill (max. 400 rpm) fitted to the suitable paddle for at least for 2 to 3 minutes or until a uniform color is obtained. For



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partial mixing proportion, add 1 part of component "B" to 4 parts of component "A" by weight. Mix only that quantity which can be used within the pot life.

Application method:

Apply a bonding coat of thoroughly mixed *Arina-bond EBA 201*, using a paintbrush, roller, or suitable spray gun. Ideally, spread the bonding agent onto the substrate in a manner to ensure complete coverage of surface. Apply the freshly mixed concrete or repair mortar within specified open time, while bonding layer is still tacky.

Material consumption:

350 to 600 g/m² per coat depending on surface roughness.

Limitations:

Do not apply *Arina-bond EBA 201* at temperature below +5 °C.

Do not thin *Arina-bond EBA 201* by solvent. Solvent will prevent proper curing.

Cleaning:

Tools and equipment should be clean after each application job or at break time. Uncured material can be cleaned with approved solvent. 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 EBA 201 is available in 3.0 kg. Pails.

Safety precautions:

Product may cause skin irritation. Use personal safety devices such as gloves and goggles. If contacted with eyes or mucous membrane, wash with plenty of warm water immediately and seek medical attention.