



Quality beyond Innovation

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ULTRABOND SA

Bonding agent for concrete and mortar

DESCRIPTION

UltraBond SA is a white coloured polymer emulsion, based on styrene butadiene co-polymer designed for use as a bonding agent for concrete, mortars and masonry works. The bonding agent is formulated for use either by itself or as slurry with cement depending on the application.

UltraBond SA is compatible with all types of cements and gypsum plaster.

USES

UltraBond SA is recommended for bonding freshly placed concrete and mortar, etc. on to concrete, mortar and masonry surfaces.

UltraBond SA is compatible with all types of cements and gypsum plaster.

Applications include bonding of:

- Repair mortar to concrete
- Fresh concrete to set concrete at construction joints
- Rendering & insulation materials to masonry, plaster and concrete
- Tiles, bricks to concrete or plastered wall

ADVANTAGES

Water resistant Can be used in outdoor situation. Will not be washed away by rain.

Terminal expansion and elastic modulus similar to concrete No failure of bond due to thermal movements

Finely dispersed polymer Excellent penetration into pores. Stronger bond

Non toxic Suitable for use in structures storing potable water

Goodchemical Bond unaffected by exposure to common aggressive chemicals

TYPICAL PROPERTIES at 25°C

PROPERTY	TEST METHOD	VALUE
Supply form	:	Liquid
Colour	:	Milky white
Specific Gravity	:	1.01



SURFACE PREPARATION

Correct substrate preparation is critical for optimum performance.

Surfaces should be structurally sound, clean, and free from loose particles, oil, grease, or any other contaminant.

Use wet grit blasting/high pressure water jetting (approx. 150 bars) or such other effective methods to remove cement laitance, loose particles, oil grease mould release agent, curing membrane and other contaminants.

Saturate the surface thoroughly with clean water before applying the bonding agent.

MIXING

Stir the contents well before use. Prepare the bonding agent by mixing it in a clean pail. For preparing the bonding slurry, mix the **UltraBond SA** and cement in the ratio 1:3 by weight to a homogeneous, creamy consistency. Use an efficient pan type mixer or a slow speed (600rpm) electric drill fitted with a grout stirrer. Add cement to **UltraBond SA** while mixing. Hand mixing is not recommended.

PLACING

For bonding repair mortars (to horizontal and vertical surfaces)

Apply the bonding agent by brush onto the prepared damp surface. Work the bonding agent well into the pores of the surface. Avoid puddles. Apply the repair mortar by trowel when the bonding agent is tacky. If the bonding agent has dried, apply one more coat just before laying the repair mortar.

For bonding repair insulation boards, etc.

Apply the bonding agent onto the prepared damp surface. Lay the insulation boards, etc., from bottom upward, pressing each panel on to the treated surface, when the bonding agent is tacky. Apply one or more coat if the earlier application has dried out. Strut until the bonding agent has set.

For bonding repair mortar/concrete/tiles, etc., on concrete

Apply the bonding slurry on to the prepared surface. Using a stiff brush work it well into the surface pores. Do not apply the slurry to more than 2mm thickness. Lay the repair mortar/concrete, etc. on the wet slurry. If the slurry has dried out apply one more coat. In case of tiles, plaster the tiles using mortar modified with

UltraBond SA before firmly pressing into the wet bonding slurry. Strike off the excess mortar that squeezes out.

EQUIPMENT

Pan type mixer or slow speed (600 rpm) electric drill with a grout stirrer.

CLEANING

Clean all tools and equipment with water before the material sets.

ESTIMATING DATA

The consumption of UltraBond SA depends on the type of application and on the quality of substrate surface.

As bonding slurry : 5 L of UltraBond SA mixed with 15 kg of cement yields 9.84 litres (0.0098 m³). Therefore material requirement is approximately 0.51 L/m² 1mm thick application.

As bonding agent : **UltraBond SA** gives a coverage of 5-12 m²/L depending on surface texture and porosity.

PACKAGING

UltraBond SA is available in 20L & 200L drum

GENERAL INFORMATION

Shelf Life 12 months from date of manufacture when stored under warehouse conditions in original unopened packing. Extreme temperature/humidity may reduce shelf life.

HEALTH and SAFETY

Gloves, goggles & suitable mask must be worn.

TECHNICAL SERVICE

Philippine SkyBird Industrial Corp. Services are available on request for on-site support to assist in the correct use of its products.