TECHNICAL DATA SHEET

ULTRABOND AR

High Performance Acrylic Bonding Agent

Description

ULTRABOND AR is water based modified acrylic resin with high penetrating power. It is perfectly resistant against diluted acids and alkalis. Due to its extraordinary fineness of its particles, **ULTRABOND AR** penetrates deeply in the support, guaranteeing a good hardening degree. **ULTRABOND AR** waterproof the surface and it improves the adhesion of concrete and cement mortars. **ULTRABOND AR** has excellent resistance to UV degradation, improves flexural and abrasion resistance, excellent plasticity and impermeability.

Features & Benefits

- Improves adhesion and cohesion.
- Low particle size, high penetration property.
- Reduce permeability and increase waterproof.
- Improves workability, strength and abrasion resistance
- Reduces shrinkage, cracking and improves flexibility
- Good freeze/thaw resistance.
- Long term corrosion protection
- Improves chemical and mineral oils.

Uses

- Increase the adhesion power of cementitious products such as; repairing mortars, screeds, renders, cement mixtures, grouts…etc.
- Corrosion protection as a bonding slurry or steel primer in concrete repairs.
- For repairing cement and mortar.
- Tiles fixing with the traditional method
- produce plaster with higher water and chemical resistance.
- Bonding slurry during concrete casting.
- Admixture for screeds and other cement flooring products.
- produce high characteristics concrete
- admixture to key coats in cementitious rendering.
- Waterproof admixture with cementitious slurries.

Technical Properties

Appearance	Milky White Liquid
Density	1,020 Kg/m^3 approx.
pH @ 25 ^oC	8.5 – 9.5
Resistance to Ageing	Excellent
Resistance to Damp	Excellent
Application temperature	+5 ^oC to +35 ^oC
Service Temperature	-5 ^oC to +80 ^oC
Toxicity	None

All values are subject to 5-10% tolerance

Standards Compliance

- ASTM C1042- type 2
- ASTM C1059 type II

Application Procedures

Surface preparation:

All surfaces should be sound, free from laitance, oil, grease and surface water. Before the application of a bonding slurry surfaces of high suction should be thoroughly dampened. Preparation of the surface can be achieved using mechanical scrabbling or grit blasting to give a clean fresh exposed surface.

Application Instructions:

Method of use as a Primer & Bonding Agent:

Prepare bonding slurry as in Table-1 . Following preparation of the substrate as detailed the bonding slurry should be brushed vigorously into the surface giving an approximate 1mm thickness. Subsequent coatings must be applied while the bonding slurry is still wet. Should the slurry dry then a further coat must be applied.

Vertical Rendering:

Prepare the render mix in line with table-1. Apply the modified render in a thickness of 5-10mm per coat. If higher thickness is required, Scratch the first coat and allow drying for a minimum of 6-10 hours before applying the second coat.

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Concrete Repair Patching:

Using stiff brush apply the bonding slurry to the prepared substrate and exposed reinforcing steel. Apply the repair mortar (mixed as in table-1) into the wet slurry using steel trowel. High thickness can be achieved in multi layers application. Score the base layer with trowel and apply the second layer when the first one has reached initial set.

Floor Screed or Topping:

Floor screed modified with ULTRABOND AR can be laid to thickness form 10-40mm. it should be placed over the still wet bonding slurry, compacted well and levelled. Trowel the screed to the required finish using wooden float or steel trowel.

Waterproof Render:

ULTRABOND AR is ideal for creating an initial waterproof render for new or existing basements, lift pits or water tanks. Ensure all substrates were prepared properly. At junctions between walls and floors apply 30-50mm triangular fillet using mortar mix similar to vertical render (as in table-1). Allow to dry for 24 hrs. pre-soak the surface with water then apply 2-3 coats of bonding slurry modified with AR. Ensure each coat is fully dry before apply subsequent layer. While the last coat is still wet apply AR modified vertical render or floor screed (as in table-1) whether it is a wall or floor.

Table –1: Typical Mix designs (by weight)

Use	ULTRABOND AR	OPC	Sand/ Aggregate	Water
Bonding Slurry	1	3	n/a	n/a
Waterproof coating	1	2	1	n/a
Vertical Render	1	5	15	1
Concrete Repair	1.5	5	10/10	1
Floor Screed	1	5	10/ 10	1.5

Packaging

ULTRBOND AR is available in 20 Lt J. Can and 200Ltr Drum.

Storage

Keep the product in dry and sheltered place at temperature between +5ºC to +35ºC. In these conditions and in closed original containers, the product will have a shelf life of at least 12 months.

Health and Safety

Wear gloves, goggles to avoid any contact with eyes and skin. In case of splashes in the eyes wash abundantly with warm water and consult a doctor.

For further information or particular use, contact SBI Technical Department.

Quality & Care

All products produced in SBI facilities are manufactured under a management system certified to conform to the requirements of the quality and environmental health & safety standards ISO 9001 & ISO 14001.

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