AEROBOND AR

**Acrylic emulsion cement modifier and water based concrete bonding agent**

**DESCRIPTION**

A ready to use, acrylic admixture and bonding agent designed to improve the adhesion and durability of concrete, masonry, stucco, terrazzo and portland cement-sand mixes to horizontal and vertical concrete and other surfaces.

**USES**

AEROBOND AR is an excellent acrylic latex emulsion used for bonding new to new or new to old concrete in interior or exterior applications. AEROBOND AR is extremely effective when used as an admixture with cementitious products such as patching compounds, masonry coatings, cement plasters, and masonry mortars. As an admixture, it not only promotes a strong bond, but also improves the curing, long term durability and resistance to moisture and cracking of the finished product

**ADVANTAGES**

* Excellent bonding agent with superior adhesive strength
* Non-reemulsifiable
* As an admixture - dramatically increases durability, moisture resistance, adhesion, and curing
* Interior/exterior applications
* Improves freeze/thaw resistance for mortars, patches and cement based coatings
* V.O.C. Compliant

**Mechanical properties**

Typical improvements in mechanical properties of a 3 : 1 sand/ cement mortar using AEROBOND AR.

**Mechanical properties Curing Conditions Control AEROBOND AR**

Compressive strength Dry 37 44

(N/mm2) Wet 33 34

Tensile strength Dry 4.8 5.4

(N/mm2) Wet 3.6 4.4

Flexural strength Dry 9.0 12

(N/mm2) Wet 7.0 9.0

Adhesion to concrete Dry 4.0 22

Slant shear bond

N/mm2 ( BS 6319)

**Instruction for use**

**Surface Preparation**

The surface should be clean, sound and free of dirt, oil, grease, paint, curing compounds and form release agents. All loose materials and deteriorated concrete should be removed.

**Application :**

**Concrete repairs** : Any reinforcing steel in the repair area should be exposed around its full circumference and cleaned to remove all loose scale and corrosion deposits and then primed with Aerozinc Primer. Remove all surface dust and debris.

**Priming**

Immediately before priming, the concrete substrate should be thoroughly dampened with water and any excess being brushed off. Scrub AEROBOND AR into the substrate. Avoid pudding of the emulsion. The repair mortar/topping should be applied whilst the primer is still tacky. However a satisfactory bond can be achieved upto 15 mins. after application at 30 0C.

**Curing:** After initial set of cement based materials, cure in accordance with industry standards or per the cement based material manufacture’s recommendations, especially in rapid drying conditions.

 **Cleaning**

Tools should be cleaned immediately after use with clean water.

**PACKING & COVERAGE**

AEROBOND SBR 40 is supplied in 1, 5, 10, 50 & 100 litre containers. Approximately 6 - 8m2/ litre depending on substrate

**SHELF LIFE & STORAGE**

AEROBOND AR has a shelf life of 12 months from date of manufacture when kept at a temperature between 5 0C to 45 0C and store in the original, unopened bags. All material shall be stored under cover in a manner that will prevent damage preferable on pallets and protected from excessive heat and moisture. Do not freeze.

**Quality Assurance**

AERO CONCHEM LLP is a firm of Assessed Capability. The company’s quality system conforms to ISO 9001:2008.