

# AcryBond™

## Liquid Waterproofer



- WATERPROOF
- FLEXIBLE
- HIGH BOND STRENGTH
- INTERIOR AND EXTERIOR
- REDUCES CRACKING
- HIGH ABRASE RESISTANCE



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### Chemical Nature

Blend of high tech acrylic polymers, modifiers, and active ingredients

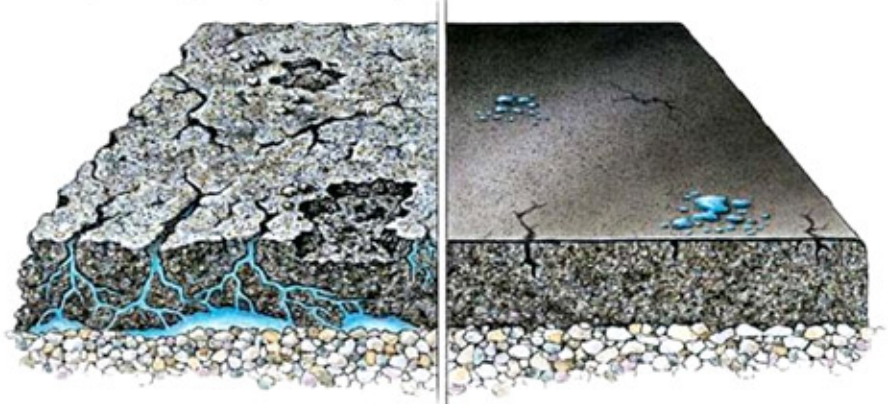
### Benefits

- Applied above or below grade
- Resists strong hydrostatic pressure
- Applied to positive or negative water pressure side
- Easy to use - needs only to be mixed with Portland cement prior to application
- Can be painted or tinted, no need for neutralizers
- Not a vapor barrier - lets concrete "breathe"

### Features

- Outstanding water resistance imparts a physical barrier to water transport.
- High flexural and tensile strength
- Highly resistant to surface movements and UV rays
- Will not re-emulsify even on long exposure to water

**AcryBond** is a special formulation of high tech polymers, modifiers and active chemical ingredients. Introduction of Portland cement to it activates this polymers into polymer chains and when applied to concrete, this polymer chains seep through the capillary tracts of the concrete substrate, thereby forming a superior waterproof barrier.

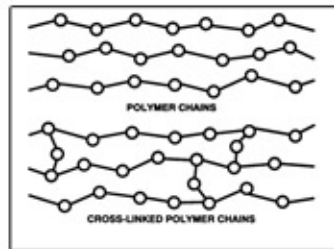
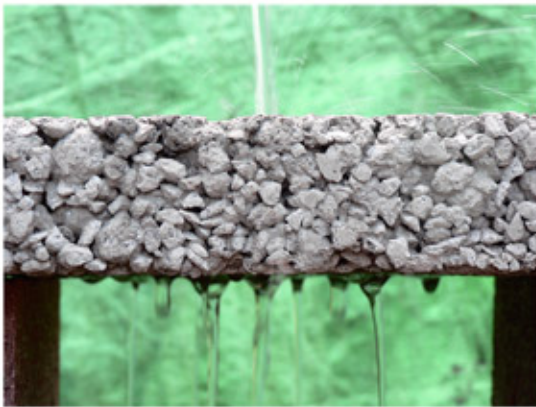


**AcryBond** is formulated to give a long lasting, flexible waterproofing membrane that will last as long as the structure itself. Not affected by most common chemicals and highly resistant to surface movements and UV rays. It also has improved adhesion, cohesion, tensile, compressive, and flexural strengths. And will not re-emulsify with long exposure to water.

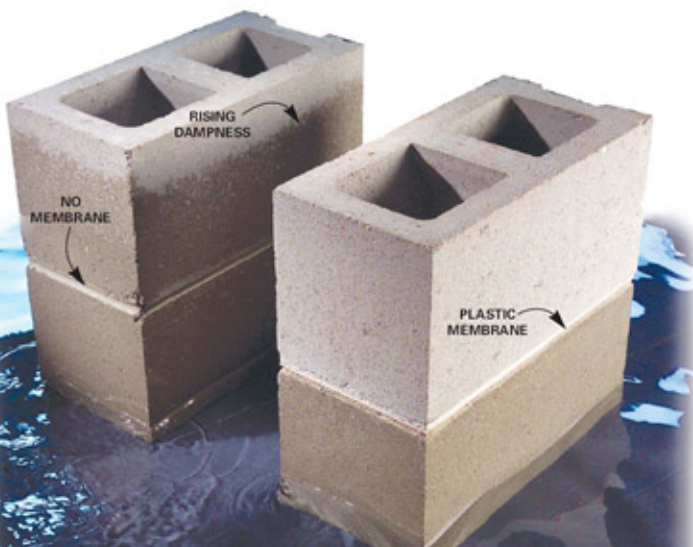
Unlike other cement based waterproofing products that will crack and peel off – a mixture of AcryBond will provide a long lasting waterproofing coating even under water.

Most people do not realize that concrete is porous – in fact, more porous than Swiss cheese! The pores constitute 12 to 18% of the concrete but the pores are invisible, much smaller than human hair. After concrete is poured, almost half of the water has to evaporate. As this surplus water pushes to the surface, it leaves behind a network of capillaries (pores).

The pores are much larger than water molecules. Water vapor or gases flow easily right through, drawn in by the low pressure inside buildings. But liquid water is initially held back by its surface tension, as the glob of water gets stuck inside the microscopic dry pore. However, as water enlarges the pores or they get wet by condensation, water starts seeping in. And eventually, the pores start actively pulling in water by capillary action.



This is where AcryBond comes in. The small polymer chains seeps thru this capillary tracts of concrete thereby stopping any water from coming in or out (negative and positive sides).



### Areas of application

To waterproof:

- Exterior Walls
- Foundations
- Basements
- Tunnels
- Retaining Walls
- Dams
- Ponds
- Pools
- Silos
- Sewage Plants
- Underground structures

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### Mixture

Mix a gallon of AcryBond to seven kilos of Portland cement to form a slurry. This mixture has a pot life of thirty minutes. If too much water has evaporated and the mixture is hard to work on, a small amount of AcryBond can be added to improve workability. **DO NOT USE WATER.** Water affects the effectiveness of AcryBond mixture and its end product.

### Priming

Good preparation is essential. Surfaces must be sound, stable, dry, clean and free of dust, loose, flaking, friable material and substances that may diminish adhesion.

AcryBond mixture is designed for use on porous, concrete or cementitious surfaces.

All surfaces must be clean and sound. They must be free of laitance, formwork release agents, paint, coatings, dust, loose particles and any other foreign matter including fungal growth. AcryBond mixture must be applied directly to the clean concrete surface.

Large cracks and honeycombing should be given a thin coating of AcryBond mixture. They should then be filled with a non-shrink mortar prior to applying the overall AcryBond treatment.

Mixing may be done by hand or mechanical mixer and should be continued until a homogenous, lump free product results. In manual mixing lumps may be broken down with a gloved hand. On completion of mixing, material must be used within 30 minutes.

Never attempt to reconstitute the mixed product by further dilution after mixed material has become too stiff to apply. Discard this product.

Any surface to be treated with a mixture of AcryBond must be fully saturated with water beforehand, preferably the day before. Surfaces such as floors must be free of ponded water or running water and verticals must be free of water running down the face.

Apply the mixture using either a medium-hard block brush, trowel, broom or roller.

Treatment must be applied in a minimum of two or three coats as indicated below. A second coat must be applied as soon as the first coat can no longer be disturbed by brushing. If a third coat is required it must follow within 24 hours, with the surface having again been pre-dampened.

The final coat of a system, be it two or three coats, must be left as smooth as possible.

**IMPORTANT:** The applied mixture must be protected from heat and wind and drying should be as slow as possible. Do not let the surface dry quickly and can be sprayed with water to dampen it.

Do not attempt to reconstitute the mixed product after it has become too stiff to apply by adding water. This product should be discarded.

### Coverage

The stated average coverage rate may vary depending upon type, condition, porosity, texture of the surface and application technique.

1. For waterproofing external surfaces against water ingress from damp earth and mist ground: Minimum of two coats applied at 1kg to 2 kg per sq.m. per coat.
2. Waterproofing internal surfaces against rising damp up to 1m head of water: Minimum two coats applied at 2kg to 4kg per sq.m. per coat.
3. Waterproofing water retaining structures internally: Minimum two coats applied at 2kg to 3kg sq.m. per coat.
4. Waterproofing externally against more than 1m head of water pressure: Minimum of 3 coats applied at 2.5kg per sq.m. per coat.



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### Drying and Curing

Drying and curing of the product is affected by type, dryness and porosity of the surface, temperature, humidity, ventilation, climate conditions and application technique and therefore drying and curing can only be given as a guide.

For best results drying should be as slow as practically possible. Post dampening is an advantage.

### Clean Up

Water, as for cement.

### Specification

The information contained in this data sheet is general in nature and refers only to the usual use of the product and it should not be construed to be a complete specification. Site conditions vary which may require the use of the products and related products to vary. For specific projects a written specification should be sought from the Company.

### Limitations

AcryBond will not seal or bridge cracks. Cracks must be independently waterproofed by alternate means before applying a mixture of AcryBond.

AcryBond will only work on concrete substrates or those containing a high level of concrete / cement.

AcryBond relies on the soundness and density of the substrate. If the substrate contains internal or external voids or is honeycombed then the effectiveness of the product may be negated or diminished.

AcryBond must not be exposed to water pressure, running water or rain until it has set.

AcryBond is not a vapor barrier. Floors may require additional sealing.



### Processing

Customers have to carry out small test on concrete surfaces to make sure a mixture of AcryBond works for them or not. Cambridge can give a small quantity for testing purposes and/or a product representative will conduct product demonstration and presentation on site.

The compatibility of AcryBond mixture to other topcoats made by other manufacturers, its effect and its adhesion to other substrates etc. are affected by a variety of factors which are too numerous for us to take into account on our own trials. This includes testing its storage stability to confirm that its viscosity remains stable.

### SAFETY

#### General

The usual precaution in handling chemicals must be observed. These includes the measures set out in the guidelines of the organizations responsible for safety at work, in particular, good ventilation and fume extraction at the workplace, care of the skin and wearing eye protection.

#### Safety Data Sheet

When using this product, the information and advice given in our Safety Data Sheet should be observed. Due attention should also be given to the precautions necessary for handling chemicals.

#### Labeling

According to all the data at our disposal, AcryBond does not need to be labeled as a dangerous substance or preparation as defined in the relevant local directives according to their current status.

#### STORAGE

AcryBond must not be allowed to come into contact during storage with metals or alloys that are susceptible to corrosion. It is important to ensure that containers are tightly sealed. This product must not be exposed to high temperatures, and it must be protected from frost.

AcryBond has a shelf life of one year at 10-30°C when unopened, and three months at 10-30°C when opened.

#### NOTE

The information submitted in this publication is based on our current knowledge and experience. In view of the many factors that may affect processing and application, these data do not relieve processors of the responsibility of carrying out their own tests and experiments; neither do they imply any legally binding assurance of certain properties or of suitability for a specific purpose. It is the responsibility of those to whom we supply our products to ensure any propriety rights and existing laws and legislation are observed.

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No. 1319326

**U.S. GREEN BUILDING COUNCIL** A nonprofit organization committed to a prosperous and sustainable future for our nation through cost-efficient and energy-saving green buildings. USGBC works toward its mission of market transformation through its LEED green building certification program, robust educational offerings, a nationwide network of chapters and affiliates, the annual Greenbuild International Conference & Expo, and advocacy in support of public policy that encourages and enables green buildings and communities.

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1370 JOSE ABAD SANTOS AVENUE METRO MANILA,  
PHILIPPINES TEL NO. 252-0531 (connecting all departments)  
www.cambridge.com • email: [cambridge@cambridge.com](mailto:cambridge@cambridge.com)