

BUILDING CHEMICALS SPECIALISTS

Uni Acrylic Bondcrete **Acrylic Emulsion**

Product Data

Uni-Acrylic Bondcrete is a 100% acrylic emulsion, high strength admixture and bonding agent for Portland cement concrete.

Basic Uses

Uni-Acrylic Bondcrete provides improved resistance to impact, abrasion, moisture and attack by acids and other water-soluble chemicals. Improved cement hydration and bonding properties result in a high strength mortar that is effective in thin applications down to leather edge. The acrylic bond coat retains its adhesive strength even under damp exterior conditions. It is excellent for bonding new concrete to existing floors, walls or other sound surfaces such as metal, brick or concrete block.

Specifications

Viscosity, cps	350.0
pH	9.0
Specific Gravity	1.03
Freeze/thaw stability	Stable
Type	Acrylic

Application Instructions

For Use as an admixture

Uni-Acrylic Bondcrete makes an excellent admixture for mortar used in patching, topping, and levelling. Mix three volumes of silica sand with one volume of Portland cement. **Uni-Acrylic Bondcrete** should be added in amounts that provide 4.5% polymer solids based on cement weight. **Uni-Acrylic Bondcrete** (8.8 litres) diluted with water (8.8 litres) of water per sack of cement (50 kg) will achieve the recommended proportion.

Uni-Acrylic Bondcrete can be added directly to the dry mortar to produce a more fluid mix. Keep in mind that the addition of **Uni-Acrylic Bondcrete** reduces the overall amount of water needed to achieve a given consistency. A low slump mix for filling cracks.

For horizontal surfaces a bond coat of **Uni-Acrylic Bondcrete** is desirable as a primer.

Uni-Acrylic Bondcrete makes an effective topping, patching, and sacking mortar that is ideally suited for very thin application for leather edge to 13mm. Improved hydration of the cement plus the strengthening properties of the acrylic polymer allow thin applications without failure due to moisture loss. It is excellent for concrete sacking and leaves a smooth, durable surface. **Uni-Acrylic Bondcrete** patches and toppings up to 51mm thick provide excellent adhesion, strength and chemical resistance. Thicker topping may be applied, but provide little additional benefit.

For use as a bonding agent

Carefully prepare the surface to be bonded. Blasting with high-pressure water is usually all that is necessary to clean the surface. Concrete contaminated with grease, oil, or other material that would prevent adhesion should be scrubbed with a 10% hydrochloric acid solution followed by thorough water rinse. Sandblasting may be required for severely contaminated surfaces.

Immediately prior to application mix **Uni-Acrylic Bondcrete** thoroughly to properly distribute the active ingredients. To bond fresh concrete apply a thin coat of full strength **Uni-Acrylic Bondcrete** to the substrate. Use a brush, roller hand sprayer or power sprayer to spread **Uni-Acrylic Bondcrete** at a rate of 5 to 6 m²/litre. The surface should be damp but free of standing water.

If the surface is dry, it is best to dampen the substrate with a light log spray prior to application. This allows the bond coat to spread on the surface. Wait a minimum of 40 minutes before pouring fresh concrete over the bonding layer.

IMPORTANT

Film must be dry to touch (not tacky) before application of fresh concrete. A longer waiting period will not degrade the strength.

Excellent results are obtained up to two weeks after the **Uni-Acrylic Bondcrete** application. **Uni-Acrylic**

Bondcrete should not be used as bonding agent on vertical or overhead surface.

Limitations

The minimum recommended application temperature is 10 °C. Temperature must remain at or above 10 °C for at least eight hours and preferably 24 hours after application. Always stir **Uni-Acrylic Bondcrete** thoroughly prior to use. The product can be used after freezing and is stable to five freeze/thaw cycles. If frozen, allow the material to rise slowly to room temperature and stir occasionally.

CAUTION

Do not use **Uni-Acrylic Bondcrete** for structural applications or areas subject to attack by chemical solvents. Frinics Chemicals manufactures epoxy based bonding agents designed for bonding, patching and repairing concrete subject to structural stress. Do not cure with water or steam.

Packaging

Uni-Acrylic Bondcrete is available in three sizes.

210 litre metal drums

20 litre plastic containers

5 litre plastic container.

Shelf Life

All components 12 months when stored in unopened containers.

Health & Safety

Avoid skin and eye contact. This product can cause skin irritation after prolonged or repeated exposure. If contact occurs, wash immediately with soap and water. If eye contact should occur, flush with plenty of water and seek medical attention. When handling, use disposable plastic or rubber gloves, wear protective clothing and discard clothing and gloves when finished.

Warranty

Frinics products will perform according to specifications only if directions are followed. Frinics is not responsible for improper use, application, or storage of its products or for use of its products in unsafe weather or with unsafe engineering or working conditions.

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