



SOLHYDBOND A

Enhancing adhesion, increasing strength, and reducing cracking in cement mixes, this acrylic latex also functions as a bonding agent.

SOLHYDBOND A is a specially formulated latex acrylic which is added to portland cement based mixes and to pre-mixed mortars to improve bond, tensile and compressive strength. SOLHYDBOND A reduces cracking caused by shrinkage. SOLHYDBOND A is also used as a bonding agent when combined with a portland cement grout. SOLHYDBOND A is recommended for resurfacing and repair of concrete floors, sidewalks and vertical concrete surfaces.

■ USES

Repair mortar and concrete:

Normally 5 to 10% of SOLHYDBOND A by weight of Portland cement will increase bond strength of the repair mortar or concrete, however for freeze-thaw resistance a 15% addition is recommended.

Thin repairs (maximum thickness of 20mm) :

One part type 10 portland cement for every 2-1/2 parts of clean sand. If extremely thin toppings are placed a very fine sand must be used (80 to 120 mesh). Use 1 part of SOLHYDBOND A for every one part of water..

Bond coat:

Use SOLHYDBOND A by adding enough portland cement to SOLHYDBOND A to create a mixture with a creamy consistency.

■ PRODUCT FEATURES

- Improves bond, tensile strength and compressive strength
- Reduces cracking
- Reduces need for prolonged wet curing

■ SURFACE PREPARATION

All surfaces must be clean free of all dirt, grease, oils or other contaminants. The surfaces must be prepared mechanically. the surfaces must be damp with no standing water. Test areas are recommended in critical areas.

■ PRIMING

No primer required.

■ ESTIMATING / YIELD

Available in 4 L, 20 L and 205 L (1, 5, 55 gal) units.

Mortar/concrete:

Yielding 17.37 L (4.6 gal)
10 kg (22 lbs) type 10 cement
12 kg (26.5 lbs) of sand
15 kg (33 lbs) of 10 mm clean stone
2.2 L (0.58 gal) of SOLHYDBOND A
2.2 L (0.58 gal) of water

Thin mortar:

Yielding 14.82 L (3.9 gal)
10kg (22 lbs) type 10 cement
20kg (44 lbs) of silica sand
2.2L (0.58 gal) of SOLHYDBOND A
2.2L (0.58 gal) of water

Bond coat:

4.9 to 9.8 m²/L (200 to 400 ft²/gal) when used as a bond coat.

■ PRECAUTIONS / RESTRICTIONS

- Do not finish more than once with steel trowel.
- Thicker sections can be performed by applying SOLHYDBOND A bond coat and covering with a repair mortar or concrete.
- Do not apply SOLHYDBOND A on frozen surfaces.

MATERIAL PHYSICAL PROPERTIES @ 23°C (73°F)

MATERIAL PHYSICAL PROPERTIES MORTAR WITH SOLHYDBOND A (@ 28 JOURS)

Tensile strength	400 psi - 700 psi	2.8 MPa - 4.8 MPa
Compressive strength	3,480 psi - 5,500 psi	24 MPa - 38 MPa
Flexural strength	900 psi - 1,350 psi	6.2 MPa - 9.3 MPa
Shear strength	90 – 98 % ASTM D1259	2.4 MPa - 3.4 MPa



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■ PRODUCT MIXING

- Mix dry sand, cement and stone before adding liquid mix.
- Add the water and SOLHYDBOND A mixture to the dry materials and mix until a uniform, homogeneous mixture is obtained.

■ PRODUCT APPLICATION

Thin and Mortar Repairs:

- Mix dry sand, cement and stone before adding liquid mix.
- Add the water and SOLHYDBOND A mixture to the dry materials and mix until a uniform, homogeneous mixture is obtained.
- Pour, rake and screed the mix to the required thickness.
- Once the product has attained its initial set, the surface must be floated and finished using a steel trowel or wooden float depending on the type of finish required.

Bond coat:

- Apply the SOLHYDBOND A bond coat to the surface.
- Apply the concrete or mortar on the bond coat before it has attained its initial set.

■ CLEANING

Use soap and water to clean tools.

■ STORAGE

void exposing SOLHYDBOND A to freezing. Shelf life of product is approximately one year.

■ SAFETY

See Material Safety Data Sheet.

BMQ SOLUTIONS WARRANTS that the product conforms to its chemical description and is reasonably fit for the purpose stated on its Technical Data Sheet when used in accordance with its directions. BMQ Solutions makes NO OTHER WARRANTY either expressed or implied. Buyer assumes all risk in handling.

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