

SOLHYDROC

SOLHYDBOND A

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.

TYPICAL USES:

- Permanently bonding new concrete to cured concrete
- Bonding **SOLHYDROC** repair materials to existing concrete substrates
- Protection of reinforcing bars from chloride ion attack
- As an adjunct to mortar or concrete

CHARACTERISTICS/ADVANTAGES

- 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

PRECAUTION / 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	3480 psi - 5500 psi	24 MPa - 38 MPa
Flexural strength	900 psi - 1350 psi	6.2 MPa - 9.3 MPa
Shear strength	350 psi - 500 psi	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.

■ APPLICATION DU PRODUIT

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.

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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

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

■ SAFETY

See Material Safety Data Sheet.

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

For Professional Use Only

www.solhydroc.com