

PRODUCT INFORMATION BULLETIN

DESCRIPTION

AD-TEK HB is a balanced blend of sand, cement and active chemical components mixed together to create a high build mortar to repair damaged or spalling concrete surfaces.

AD-TEK HB when mixed with water creates a high build, chemical-resistant compound of high strength and impermeability which bonds strongly to the cement substrate.

USES

Repair of damaged concrete structures such as bridges, roads, pipes, factory floors and other horizontal surfaces where a depth of fill of between 10 and 100 mm is required.

BENEFITS

- Contains no chlorides.
- High mechanical strengths.
- Forms an indivisible body with the base concrete.
- Significantly increases impermeability and corrosion resistance of concrete.
- Corrosion protection to reinforcement.
- Excellent abrasion resistance and durability.
- Can be painted over most coatings adhere well to the cured product.
- Can be top coated with AD-TEK R or treated with AD-TEK PW for dramatically increased waterproofing and durability.
- Product, when correctly applied, has a life greater than 10 years.

PROPERTIES

Waterproof according to DIN 1048	
Compressive strength	- 24.0 MPa in 1 day - 47.2 MPa in 7 days - 54.0 MPa in 28 days.
Flexural strength	5.9 MPa in 28 days.
Bond Strength	3.9 MPa in 28 days.
Crack resistant according to 'Ring Method'.	

INSTALLATION (Refer to the MSDS before applying)

Surface Preparation:

Remove any existing coating, and thoroughly clean surface, acid etches, pressure wash then hose to fully impregnate with water and allow drying to a wet dull lustre free of puddles. Any exposed reinforcing should be cleaned and treated with **AD-TEK H** (steel corrosion inhibitor and surface hardener).

Priming: (Recommended)

Apply AD-TEK H at the rate of 5-6 square metres per litre to further wet the surface without forming puddles. Note: Priming enhances steel corrosion inhibition of repaired concrete and increases bond strength.

Mixing equipment:

Low sheer mechanical mixer

Mixing instructions:

Place the required amount of water in a clean mixing bucket and while stirring slowly gradually, add the **AD-TEK HB** until a mix of the desired workability is obtained. Mix for a further 2–3 minutes, allowing the mixture to stand for a further 3 minutes. Re-mix for a further 1–2 minutes and use within approximately 30 minutes.

Note:

1. Normal water requirement is 1 litre of water to 7.6 to 8.2 kg **AD-TEK HB**.
2. For depths of fill above 60mm, the product can be bulked out by adding up to 60% of 3-5mm aggregate.

APPLICATION

Apply the **AD-TEK HB** utilising standard mortar techniques, by trowel.

CURING

All exposed areas should be thoroughly cured. This should be done as soon as the surface is firm, by the use of concrete curing membrane, continuous application of water or wet hessian.

PACKAGING, SHELF LIFE and STORAGE

AD-TEK HB is available in 20 kg moisture-resistant bags or plastic pails.

AD-TEK HB has a shelf life of 12 months if unopened and kept in a dry store in sealed bags or plastic pails.

Disclaimer: Any advice, recommendation, information, assistance or service provided by application is in good faith and is believed by AD-TEK PTY LTD to be appropriate and reliable. However, any advice, recommendation, information, assistance or service provided by AD-TEK PTY LTD is provided without liability.