

AD-TEK H

Surface Hardener



FEATURES

AD-TEK H is a blended aqueous solution, free of chlorides. It is especially formulated as a penetrative corrosion inhibitor that significantly hardens the surface and increases the durability of concrete.

As a performance and durability enhancer of existing concrete structures, AD-TEK H:

- Densifies and hardens the surface layer
- Stops surface dusting
- Increases impermeability, chemical resistance and durability
- Restores the protective properties of the concrete against reinforcement corrosion.
- Repairs cracks up to 1mm.

On new hardening concrete, AD-TEK H:

- Reduces water loss of fresh concrete by 40%
- Promotes efficient cement hydration
- Stops surface dusting
- Reduces surface cracking
- Increases surface hardness, impermeability and durability
- Enhances concrete protective properties against steel reinforcement corrosion

As a primer for most cementitious renders and polymeric coatings, AD-TEK H:

- Increases the adhesive bond strength of the renders and polymeric coatings

As a treatment for brickwork, AD-TEK H:

- Works as a hardener and durability enhancer of brickwork joints

USES

- Restoration of degraded concrete structures (approved for use on Heritage sites).
- Dust proofing of factory floors.
- Surface hardening and abrasion resistance of concrete surfaces i.e. floors, road works, bridge decks etc.
- Reinstatement of poorly finished concrete.
- Primer for cementitious renders and cementitious crack repair systems
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- Primer for coatings of all types.
- Water retention agent for new hardening concrete.

PROPERTIES OF TREATED CONCRETE

Friction Abrasion Resistance according to DIN52108: Mass loss is reduced by up to 40 times.

Impact Abrasion Resistance to AS/NZS4456.9-2003: Increased.

Chloride Ion Diffusion to NT Build 4431995-11: Reduced approximately two times.

Reinforcement Corrosion Inhibition, Polarisation Curves Method:

Steel reinforcement is passivated and hence corrosion is inhibited.

Water Absorption to Taywood Engineering Test: Absorption is decreased by 25%.

Water Retention for new hardening concrete to AS3799-1998: Water loss is reduced by 20%.

Slip Resistance to AS/NZS4586-2004: Unchanged by treatment.

DIRECTIONS FOR USE

Surface Preparation:

AD-TEK H must be applied to a clean surface free of contaminants. Pressure washing is recommended as minimum preparation.

Application:

AD-TEK H is normally applied as a single coat, usually in the range of 3 – 5 square metres per litre. Where double coating is deemed necessary for badly degraded concrete, the second coat can be applied after the first coat is fully impregnated into the concrete.

Curing time:

Not applicable. Treated concrete can be put into service as soon as the surface is dry.

Wash equipment immediately after use with water.

SAFETY

Refer to the MSDS, contains no hazardous substances requiring labelling

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