

PRODUCT INFORMATION BULLETIN

DESCRIPTION

AD-TEK H is a chemically blended aqueous solution, free of chlorides, especially formulated as a Penetrative Corrosion Inhibitor that significantly hardens the surface and increases the durability of concrete.

Laboratory and field testing indicates that treatment with **AD-TEK H** will provide protection for more than 10 years.

USES

1. 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.
2. On new hardening concrete, **AD-TEK H**:
 - Reduces water loss by about 20%.
 - Promotes efficient cement hydration.
 - Stops surface dusting
 - Reduces surface cracking.
 - Increases surface hardness, impermeability and durability.
 - Enhances concrete protective properties against steel reinforcement corrosion.
3. As a primer for most cementitious renders and polymeric coatings, **AD-TEK H**:
 - Increases the adhesive bond strength of the renders and polymeric coatings
4. As a treatment of brickwork joints, **AD-TEK H**:
 - Works as a hardener and durability enhancer of brickwork joints.

AREAS OF USE

- 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 render.
- Water retention agent for new hardening concrete.

INSTALLATION (Refer to the MSDS before applying)

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. But if double coating is deemed necessary for badly degraded concrete, the second coat can be applied after 2 to 4 hours, when 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.

PROPERTIES OF TREATED CONCRETE

Friction Abrasion Resistance according to Russian Federation Standard 13087 (Analogue of DIN 52108):	Mass loss is reduced by up to 40 times
Impact Abrasion Resistance according to AS/NZS 4456.9-2003:	Abrasion resistance is increased.
Chloride Ion Diffusion according to NT Build 443 1995 – 11:	Reduced approximately two times.
Reinforcement Corrosion Inhibition according to Polarisation Curves Method:	Steel reinforcement is passivated and hence corrosion is inhibited.
Water Absorption according to Taywood Engineering Test:	Absorption is decreased by approximately 25%.
Water Retention for new hardening concrete according to AS 3799 – 1998:	Water loss is reduced by approximately 20%.
Slip Resistance according to AS/NZS 4586 – 2004:	Unchanged by treatment.

PACKAGING, SHELF LIFE and STORAGE

AD-TEK H is available in 20 and 1000 litre containers and in bulk on request.

AD-TEK H has a shelf life of 12 months if kept. It should be stirred well before use.

SAFETY INFORMATION

Detailed safety information is contained in each material data safety sheet, which can be obtained from our sales offices.

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.