

AD-TEK PW

Surface Hardener



FEATURES

Ad-Tek PW is a blended silicate solution, free of chlorides that provides long-term waterproofing and durability to concrete.

Ad-Tek PW penetrates into the concrete and reacts with free calcium forming a calcium silicate gel in pores, capillaries and cracks. This gel creates a sub-surface barrier against the penetration of water and contaminants such as chloride and sulphate ions, protecting steel reinforcement against corrosion and increasing sulphate resistance of concrete.

After application the Ad-Tek PW remains active in the concrete body to provide, self-generating healing properties to future hairline cracks.

On new hardening concrete, Ad-tek PW reduces water loss of fresh concrete by 25%

- Promotes efficient cement hydration
- Stops surface dusting
- Reduces surface cracking
- Increases surface hardness, impermeability and durability
- Enhances concrete protective properties against steel reinforcement corrosion

USES

As a waterproofing and durability enhancer

- Provides long-term waterproofing
- Seals cracks up to 2mm
- Densifies and hardens the surface layer, increasing the protective properties of the concrete against reinforcement corrosion.
- Increases chemical resistance.

On new hardening concrete

- increases waterproofing, surface hardeners and durability
- promotes efficient cement hydration during the curing phase
- reduces the possibility of surface cracking

PROPERTIES OF TREATED CONCRETE

Friction Abrasion Resistance according to DIN52108: Mass loss is reduced by up to 30 times.

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

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

Waterproofing to DIN 52108: Resistance to water penetration increased by 80%

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 25%.

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

DIRECTIONS FOR USE

Surface Preparation:

Ad-Tek PW must be applied to a clean surface free of contaminants. The concrete must have open capillaries, all material on the surface that may retard or resist penetration must be removed. All voids and open cracks should be repaired. On old concrete evaluate for free lime content before proceeding.

Application:

Ad-Tek PW is normally applied as a single coat, usually in the range of 3.0 – 4.0 square metres per litre. Apply by spray, brush or mop, ensure complete and even coverage. Treat all visible cracks by applying Ad-Tek PW into and along hairline cracks prior to wetting the entire surface. Allow the surface to become touch dry (3-6) hours and spray with water to fully wet.

OR

Dilute 1 part Ad-Tek PW to 2 parts water by volume. Apply half the solution to wet the entire surface, making sure to apply extra material to any hairline cracks. Wait until the surface is tough dry (3-6) hours before applying the second half.

To increase penetration and improve overall performance fully wet the surface 12,24 and 72 hours after application.

Wash equipment immediately after use with water.

SAFETY

Refer to the MSDS, contains no hazardous substances requiring labelling

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