

Armourtech DPS 101

Deep penetrating Concrete sealer

Description:

Armourtech 101 concrete sealer is a specially formulated high-tech clear/flat water based sealer that has a penetrating inorganic potassium modified material that “fuses” to concrete and appreciably helps stop water, oil, gas, grease, salts and other fluids from damaging concrete.

Armourtech 101 unique formula reacts with the lime in the concrete to form a gel. The gel then hardens and consequently densifies the concrete, decreasing the moisture permeability and porosity. By this fusion, the substrate actually becomes better concrete.

Armourtech 101 is good as a cure & seal & is an excellent penetrating sealer for all cementitious applications.

Armourtech 101 is waterborne contains no VOC's, is non hazardous non toxic & no odour.

Uses:

New construction – as cure & seal **Existing concrete** – as deep penetrating sealer

Below grade / pre-cast / tilt-up / form / bridge decks
Driveways / Walkways/ Basements /Concrete Pavers / Split face /Masonry products / Mortar /
Pool decking / Stucco / Bridges / Tunnels / Foundations / Parking Garages / Warehouse Floors /
Decorative & Coloured Concrete Applications... **any concrete structure or product**

Application:

Surface may be a little damp but not wet. Surface/outside temperature should be 1.5 degrees C or more.

Apply by *low-pressure spray* – a common garden sprayer works well. Apply an even blanket mist just to wet – not soak. When over applied, white, chalky deposits may appear after drying & these can be stiff-broomed or power washed off.

New Concrete: Use as the Cure & the Sealer

Ideally, the best time to apply is when bleed water is gone and concrete will withstand the weight of a man. OK to apply anytime after placement. Avoid rain or freezing for 12 hours. Apply by spray with medium saturation, careful not to over apply. * *We recommend a maintenance mist after the 28-45 day curing cycle complete, if possible, for best results.*

Old Concrete: Use as a Penetrating Sealer

Always clean, rinse thoroughly, especially when using oil/citrus base cleaners. Flush out well, let dry and apply by low-pressure spray. Acid etching may be necessary for tight or smooth troweled surfaces to aid in penetration.

- *Always test first for penetration receptibility.*
 - *Armourtech 101 can be trafficked on immediately by light and heavy traffic of any type.*
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Finish:	Flat
Colour:	Clear
Coverage:	5-10m ² per/ltr
No. Applications:	1
Drying Time:	3 – 5 hours per application
Shelf Life:	2 years, stored unopened above freezing temperature
Clean Up:	soap & water (avoid contact with glass & plastic windows & lenses)

Note: DO NOT FREEZE

Preparation:

Surfaces must be clean and free of dirt/debris/mildew/oils/grease/and other sealers. Seal all cracks prior to use of Armourtech DPS101.

Acid etching may be necessary for tight or smooth troweled surfaces to aid in penetration. Should concrete require acid etching (hydrochloric acid) ensure the concrete is neutralised Sodium Bicarbonate (baking soda) after etching. Dissolve qty baking soda with water allow to settle and drain of the liquid. Spray liquid on concrete and wash out with copious amounts of water. Alternatively a concrete grinder may be required.

Armourtech 101 will not work with any other product with an oil base, such as asphalt, paints, vinyl, etc. When Armourtech 101 cannot penetrate or over applied, a slight chalky residue may lay on surface. A stiff broom, power cleaning or time can usually remove this. Armourtech 101 is not designed to seal cracks and these should be addressed before sealing with Armourtech DPS101.

Clean up:

Clean up spray equipment with soapy warm water.

Health & Safety:

Avoid contact with skin & eyes. EPA/OSHA Compliant – contains no solvents/0% VOC (Volatile Organic Compounds). Non-Hazardous to plants and animals. Wash application materials with water.

First Aid:

Eyes: Flush with water for at least 15 minutes. Wash skin thoroughly with soap and water. If swallowed, give 2 glasses of water to drink & consult physician.

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Boiling Point:	212 F (same as water)
Vapour Pressure:	/20C/68 F water
Vapour Density:	N/A
Solubility in Water:	Excellent
Evaporation Rate:	Same as water
Appearance & Odour:	Clear-slightly amine
Specific Gravity:	(H2O-1):1.1 to 1.3 @ 20C
% Volatile by Volume:	N/A
PH:	11.5
Flashpoint:	N/A
Flammable Limits:	N/A
ASTMD 2939:	Resistance to water solubility, flexibility, no cracking.
ASTMD 466:	Resistance to water flow and Action. Excellent adhesion. No demulsification.
ASTME 96:	Water vapour transmission 0.04 grains/sq ft./hr. Water permeability– 0102 perms
ASTMC 836:	Film thickness on a vertical scale
SS-W-110C:	Water repellence on masonry test: 1.925% avg.
ASTMC672:	Freeze/thaw cycle – 100 day cycle
ASTMC-156:	Water retention 0.47 kg/m ² , Specification – 0.55 kg/m ²
ASTM C309-98a:	Moisture loss – 1025 kg/ms
ASTM C115-00:	Moisture loss – 0.19 kg/m ²
Adhesion ASTM:	Elcometer Pull – 280 lbs-concrete failed 1 st / no delaminating
ASTM C642 & C672 Absorption:	Phase 1-48 hr: 0.64%; Phase 2-50 day: 1.32%
ASTM Sealing Resistance:	No Scaling

This product is considered a non-hazardous chemical under the OSHA Hazard Communication Standard / (29CFR 1910.1200)

Armourtech Solutions -Seals – Conditions – Protects

www.concretesealers.co.nz