E P Waterproofing System™

Formulated from advanced technology in Polyester Polymer

E P Waterproofing System™ permanently waterproofs and preserves concrete, brick, block and all masonry surfaces & structures with one easy application.

For industrial, commercial and residential use on homes, rooftops, R.C gutters warehouses, wall and floors, commercial buildings, factories, basements, subways, tunnels, roads and reservoirs.

E P Waterproofing System™ is remarkably superior to other waterproofing products because it hardens, protects and waterproofs from within. E P Waterproofing System™ is non-toxic, non-flammable and non-caustic and has a range of Accredited International Tests.

*Colour* Translucent
*State* Liquid
*Vapour* (Air + 1) – N/A
*Specific Gravity*: (Water = 1) – 1.34@ 20 Degrees C.
*Solubility in Water*: Dilutable
*Evaporation Rate*: (BAC = 1): Same as water.
*Percent Volatile by Weight*: N/A
*pH*: 6.0
*Boiling Point*: 100 degrees Celsius. Water
*Freezing Point*: 0 degrees Celsius. Water

Theoretical Coverage: 5-7 square metres per litre
Method: Hand or Mechanical Sprayer.

Consists of: 5 Litre  20 Litre  200 Litre drum
Shelf Life: 12 months minimum from date of manufacture when maintained in protected storage @ 5 – 38 degrees Celsius

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E P Waterproofing System™

Is not a Surface coating.

Does NOT aerate.

Insulates, hardens and waterproofs concrete, brick, plaster, mortar, and most natural stone.

Causes a chemical reaction that solidifies the component parts of concrete and masonry into one single mass.

Increases the tensile strength and prevents concrete floors from surface cracking, crumbling, dusting and rutting. *Increasing the wearing quality.*

Forms a better bond between old and new concrete, such as concrete slab repairs and screeding. It will enable the new concrete to cure properly by preventing the rapid absorption of moisture from the new concrete into the old.

Neutralizes the lime and alkali in the masonry and eliminates dampness. It therefore prevents saponification* of paints by stopping the leaching of the lime and alkali into the oils of the paint, enabling the paint to last from 2 to 5 times longer (depending on the quality of the paint)

Permanently insulates and waterproofs walls and floors, inside or outside, damp or dry, new or old, above or below grade.

E P Waterproofing System™ assists in hair-line cracking and un-even shrinkage from existing structures.

E P™ increases the bond between the cement and the various aggregates, making a dense, hard and waterproof core.

*See: Saponification of Paints and Coatings
Application Instructions

1. Use a low-pressure sprayer (Back-pack type) or any spray, operated at 20 Psi.

2. Spray entire surface area using approximately 1 Litre per 5 – 7 m². Allow to dry.

3. Area may be opened to reasonable foot traffic at this time.

E P™ Waterproofing System is best applied by spray method; this is not only fast and effective but also gives the correct application rate. Allow several days for completion of curing process and penetration.

Allow to dry completely prior to the application of paint if that is desired. E P Waterproofing System™ will provide a long lasting, problem free bond for paints and floor coverings, prevents peeling, blistering and cracking.

E P Waterproofing System™ will not harm glass, tile or aluminium.

For New or Old Plastering

1. Rinsing down the surface is recommended for the purpose of flushing away dust and dirt for new plastering. Allow to dry completely.

2. Apply with low-pressure sprayer (hand-spray, back pack) or any spray operated at 20 Psi.

3. Apply to entire surface area of old or new plastering, using approximately 1 Litre per 4 - 5 square metres. Start across top, gradually working downward. Let penetrate and cure for 12 to 24 hours, until surface feels dry.

4. Complete curing after 4-5 days depending on ambient temp. area may be painted at this stage.
For the Paint Trade

E P Waterproofing System™ will prevent and solve the age-old problem, which normally occurs whenever masonry is painted. Due to porosity of all masonry such as render, concrete, brick and terrazzo and its chemical composition, a long lasting surface bond with any surface coating is questionable and sometimes impossible.

For Treating Natural Stone

Treat entire surface with E P Waterproofing System™ as directed in standard procedure. Allow to cure.

This building owner decided not to Waterproof the concrete balconies resulting in complete failure. The concrete could not sustain the constant water absorption. EP Waterproofing System will prevent this failure by waterproofing the concrete completely.
Specifications

1  PRODUCT: E P WATERPROOFING SYSTEM™

2.  MANUFACTURER:

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3.  PRODUCT DESCRIPTION:

E P Waterproofing System™ is a non-toxic, non-caustic, non-flammable solution, formulated using the latest technology in Polyester Polymer, a first in the waterproofing industry.

4.  PRODUCT USES:

For industrial, commercial, and residential use, on concrete, brick, render and all masonry. For homes, warehouses, commercial buildings, factories, roads, tunnels, bridge decks, parking lot structures, hydroelectric dams, concrete roofs, subways, basements and reservoirs. Use inside or outside on new or old masonry.

5.  JOB LIMITATIONS:

Apply in good weather when air and surface temperature are above 10 Degrees Celsius. Temperature must remain above 8 Degrees Celsius for 24 hours after application. For optimum application properties, materials should be between 18 to 35 Degrees Celsius prior to application. Maintain unmixed material in closed containers in protected storage at 4 to 38 Degrees Celsius.

DO NOT STORE IN DIRECT SUNLIGHT.

6.  SURFACE APPLICATION:

Good surface preparation is essential to a satisfactory coating. Surfaces to be coated should be clean and dry. Remove all dirt, dust, oil, grease, rust, mildew and loose or cracked paint or other contamination by first cleaning with E P™ Cleaning Products. Rinse thoroughly and allow to dry.
Masonry- A Lifetime Bond

All foreign matter is cancerous to concrete and masonry. Foreign matter is any acid, alkali or oil found in the masonry or spilled on it (Such as lactic acid in milk, oil, alkali, chemicals etc.) These cancerous substances imbed themselves in the masonry.

E P™ applied to the masonry, concrete, plaster etc. will penetrate and by a progressive chemical reaction, which is started at the surface, binds all component parts of the masonry into a more dense or solid mass. As this reaction takes place, all free lime and alkali are neutralized. As the masonry increases in density it becomes waterproofed, resistant to acid, oil, fuels, fats, and grease.

E P™ stops dusting, rutting, brick fretting, spalding and prevents static. This process will stop cracking, crumbling, seepage and pitting while increasing the density of the masonry.

E P™ also increase the tensile strength of the concrete as it fills all voids preventing any penetration of water or contaminants from the surface either horizontally or vertically. In regards to slab floors, E P Waterproofing System™ will not allow any vapour emission or water to come up from the ground.

According to U.S Testing laboratories, the interior of a piece of concrete contains a minimum or 361 times the amount of alkali as compared to the surface area. Therefore, E P™ which uses the existing alkali to affect the cure, is 361 more times effective than any surface sealer and is also permanent. Anything applied only to the surface of the masonry must eventually come off due to aeration and deterioration. E P™ which is locked into the interior can not deteriorate or wear off. Instead it waterproofs and seals the masonry permanently.

After treating the masonry with E P Waterproofing System™, no foreign substance can penetrate into the masonry and will stay on the surface where it can be washed off easily. All masonry treated with E P Waterproofing System™ will stop disintegrating. You will no longer be able to remove a portion of the concrete, brick, plaster surface by running your hand across the surface based on the fact that component parts of the masonry are solidified into one mass, rather a billion independent particles.
EP Waterproofing System™

BENEFITS TO THE DEVELOPER & CONTRACTOR

Use E P Waterproofing System™ inside and out, on old or new concrete, bricks, plastering and all masonry.

E P™ applied to the surface, penetrates and by a progressive chemical reaction, which is started at the surface, binds all component parts of the masonry into a more dense or solid mass. As this reaction takes place, all free lime and alkali are neutralized for all time. As the masonry increases in density it becomes waterproof, resistant to acids, oil, grease and stops fretting mortar, rutting, spalding, prevents static and protects reinforcing from moisture.

E P™ in its natural form is a colourless, transparent liquid, which is used on all types of masonry for the purpose of preserving it against deterioration.

E P™ prevents hot spots and stops the saponification of paints applied to masonry surfaces.

E P™ generally takes, under ordinary conditions, 12 to 14 hours for the chemical reaction to take place, and 6-7 days for a complete cure.

E P™ should be applied to all concrete floors and walls, terrazzo floors, bricks, brick and block mortar, most natural stone.

E P™ is odourless, non-flammable, non toxic, non hazardous. No special safety equipment needed.

E P™ does not contain any material foreign to masonry, nor does it contain any oils or solvents.

E P™ is ready to use. No mixing required. It penetrates and surface dries quickly and can be applied without interfering in any way with your general routine.

E P™ must be used as it comes from the container or drum and may be brushed, rolled, sprayed, mopped or flushed on. What ever is best suited for the job at hand.

The main point is to SATURATE THE SURFACE.

E P™ will NOT plug holes or sizeable cracks.
International Testing
E P Waterproofing System™

ASTM C-31: Increase of Compressive Strength in concrete tested with E P Waterproofing System™.

ASTM C-672: Chloride Penetration Resistance – No Chloride Penetration at any depth.

ASTM – 413: Water Absorption of Chemical Resistant Concrete/Mortar Surfaces. Test Results show concrete positively waterproofed, inhibiting corrosion.

AASHTO- T259 - 89: Chloride Ion Penetration

ASTM C-67: Section 10: Efflorescence


AS 1012.21 – Standard test method for density and absorption. Shall not exceed 1.0% after 48 hours or 2.0% after 50 days.

GHD Perth Western Australia

Negative Hydrostatic Pressure Test. Passed 60 psi, no visible failure. Procedure for determination of Water Permeability of Concrete. GHD standard test method.
FAQ

Q: How does EP Waterproofing System™ differ from other products that claim to protect and waterproof concrete?
A: EP Waterproofing System™ does not form a surface film attempting to create a barrier but penetrates inside the matrix forming a solid in the gel pore system.

Q: Can you paint concrete treated with EP?
A: Absolutely, EP Waterproofing System™ prevents “Saponification” where moisture is unable to work its way through to the surface which causes the paint to peel away.

Q: Does EP Waterproofing System™ coat the reinforcing steel to stop corrosion?
A: No, EP Waterproofing System™ prevents oxygen and water from entering the gel pore as well as contaminates such as chlorides. Promoting the natural passivation layer on embedded steel.

Q: Will EP Waterproofing System™ protect against carbonation of concrete?
A: Yes! The reaction of atmospheric carbon dioxide and calcium hydroxide causing carbonation and loss of pH does not occur when treated.

Q: Can EP Waterproofing System™ waterproof Shotcrete?
A: Yes! Shotcrete has a very high cement content which promotes a greater reaction due to the increased Alkali content. Coverage areas per litre are slightly reduced due to the high absorption rate.
### Chemical Resistance Guide

#### Alcohols
- NE-Benzyl Alcohol
- NE-Ethyl
- NE-Isopropyl Alcohol
- NE-Methyl Alcohol
- NE-Ethylene Glycol
- NE-Methyl Ethyl Ketone

#### Hydoraulic Fluids
- NE-Oronite
- NE-Pydural F9
- NE-Pydural 60
- NE-Skydrol
- NE-Skydrol 500

#### Oils & Fuels
- NE-ASTM No.1 Oil
- NE-ASTM No.2 Oil
- NE-ASTM No.3 Oil
- NE-ASTM Fuel A
- NE-ASTM Fuel B
- NE-ASTM Fuel C
- NE-Heating Fuel
- NE-Jet Aircarft Fuel

#### Aldehydes
- NE-Bezaldehyde
- NE-Butraldehyde
- NE-Furfural

#### Ketones
- NE-Acetone

#### Inorganic Bases
- NE-Barium
- Hydroxide Conc
- NE-Calcium
- Hydroxide Conc

#### Substituted Hydrocarbons
- NE-Carbon Disulphide
- NE-Nitrobenzene

#### Miscellaneous
- NE-Antifreeze
- NE-Brake Fluid
- NE-Transmission Fluid

#### Natural Fats & Oils
- NE-Butter
- NE-Castor Oil
- NE-Cottonseed Oil
- NE-Lard/Grease
- NE-Olive Oil

#### Detergents & Cleaning Products
- NE-Non-Butyl Cleaners
- NE-Chlorox 1%
- NE-Chlorox Concentrate
- NE-Any Butyl Based Cleaners
- NE-Powder Cleaners
- NE-Standard Laundry Products

#### Ethers
- NE-Dibenzyl Ether
- NE-Diethylene Glycol Mon Ether
- NE-Ethyl Ether
- NE-Ethyl Gly Mono Ether

#### Inorganic Acids
- NE-Chromic Acid 10%
- NE-Hydrochloric Acid 10%

**E- No Effect**

**M – Moderate Effect**

**S – Severe Effect**

#### Esters
- NE-Amyl Acetate
- NE-Dibutyl Sebacate
- NE-Diisopropyl Phthalate
- NE-Ethyl Acetate
- NE-Tricresyl Phosphate

#### Halogenated Hydrocarbons
- NE-Benzyl Chloride
- NE-Bromobenzene
- NE-Carbon Tetrachloride
- NE-Chloroform
- NE-Ethylene Dichloride

#### Amines
- NE-Amline
- NE-Triethanolamine
NOTICE

E P Waterproofing System™ should not be applied to any surface that has had a previous coating of silicone, siloxene or solvent-based material.

E P Waterproofing System™ IS A PENETRATING PRODUCT.

If the applicator sees that E P Waterproofing System™ is not being Absorbed. It should not be applied.

DISCLAIMER

On certain quick stage block walls, the holes and pores in the block surface may be too large to successfully fill with E P Waterproofing System™. EP™ Concrete Block Sealer should be used in all concrete block retaining walls. See specs on this amazing product, contact Enviropacific.
From Malaysia to Egypt EP is used by all nations.

NSW planter boxes

House slab Melbourne VIC.

Cray fish tanks Egypt

Sea World Boat Blaster Pool  Gold Coast Qld.