

# **EARTH FRIENDLY WATERPROOFING SYSTEM BASED ON ADVANCED POLYESTER POLYMER TECHNOLOGY**

## **DESCRIPTION:**

**EVO-SEAL- Penetrates up to 100mm.**

**Transparent, water based static/hydrostatic waterproof liquid impregnate tested to 4 bar (60psi).**

Non toxic, non-caustic, non-flammable, inorganic polyester polymer formulation. Waterproofs, eliminates rising damp, insulates, hardens and preserves concrete, plaster, mortar and most natural stone permanently. Causes a chemical reaction that solidifies the component parts of pre-cast block, masonry, concrete and cement mortars into a single mass making it waterproof, resistant to acid, oil, fuels, fats and grease. Will stop dusting, brick fretting, cracking, seepage as it increases the density of the substrate, increases wear capability.

## **APPLICATION FIELDS:**

- All old or new concrete, bricks, blocks, plastering/render and masonry construction.
- Concrete floors, walls, terrazzo and most natural stone. Above or below ground.
- Historical monuments, public buildings and new or old constructions affected by pollution.
- Roads, tunnels, decks, dams, subways, basements, swimming pools.

## **ADVANTAGES:**

- Suitable over weak and old substrates.
- Prevents **saponification** of paints, does not contain oils or solvents. Prevents blistering.
- Safe for users and adjacent areas, it does not require special protection equipment.
- Non-corrosive, non-toxic and non-flammable.
- Environmentally friendly. Saves hazardous classified materials transportation cost.
- Problem free bond for paint, floor coverings.
- Will NOT harm glass, tiles or aluminium.
- Permanently waterproofs and preserves.

## **SURFACE PREPARATION:**

### **Fill all holes and cracks**

Clean the surface to be treated to remove dust, grease, salts, or unsound particles and loose or cracked paint, to optimize the penetration of **EVO-SEAL**.

Use **EVO-SALTAWAY** if salts are detected.

**ALLOW SURFACE TO DRY AS MUCH AS POSSIBLE BEFORE APPLICATION OF EVO-SEAL.**

#### **APPLICATION:**

Apply **EVO-SEAL** by low-pressure spray operating at no more than 20 psi, back-pack or hand-spray ensuring a uniform and homogeneous coverage starting at the bottom and working across the surface and gradually working upwards. It is essential to saturate the substrate. ***If using over an existing non porous tiled area, wipe off any residual product within 10 minutes with a dry cloth.***

Allow **EVO-SEAL** to cure and penetrate for a period of about 12-48 hours.

**Complete curing 4-5 days before painting or other application**

#### **CLEANING:**

Tools and equipments should be cleaned immediately with water after use.

#### **CONSUMPTION:**

Estimated consumption of **EVO-SEAL** 5 /m<sup>2</sup> per lit.

Consumption depends on porosity, texture and substrate conditions. A preliminary test on-site will determine exact consumption.

#### **IMPORTANT CAUTIONS:**

Apply in good weather with air and surface temperatures above 7 °C.

**TECHNICAL BULLETIN Nº.: 1**

# EVO-SEAL

®

2

DO NOT APPLY TO ANY SURFACE PREVIOUSLY COATED WITH SILICONE OR SOLVENT BASED MATERIALS.

Will NOT fill holes or sizable cracks.

IF PRODUCT IS **NOT** ABSORBED IT SHOULD **NOT** BE APPLIED

#### **PACKAGING:**

**EVO-SEAL** is supplied in 2lit, 5lit, 20lit and 200lit containers.

**STORAGE:** Twelve months in its original unopened containers, in a dry and covered place protected from frost, with temperatures ranging from 4 °C. To 38 °C

#### **SAFETY AND HEALTH:**

**EVO-SEAL** is a non-flammable and noncorrosive product but eye and skin contact must be avoided. Use gloves and safety goggles. In case of eye contact, thoroughly clean with clean water but do not rub. In case of skin contact, wash affected areas with water and soap. If irritation persists, seek

medical attention.

**TECHNICAL DATA: WARRANTY:** 10 year manufacturer

**Characteristics of the product –Non-Toxic-Non-Flammable-Non-Caustic**

Appearance Translucent Liquid

Vapour (air+1) -N

Specific Gravity (water=1)1,34@ 20 °C

pH Approx. 6

Minimum application temperature (°C) > 7

Solubility/Evaporation Rate DILUTABLE-(BAC=1) same as water

Flash point/Boiling Point/Freezing Point Non-flammable-Same as Water

Estimated consumption per treatment\* 1 lit 5-7/m<sup>2</sup>

\* Depending on absorption, texture and substrate conditions as well as application method.

## Testing Accreditation

Testing Accreditation Technical Bulletin



ASTM C-31: Increase of Compressive Strength in concrete tested with Evo – Seal TM

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..



ASTM C-67: Section 10: Efflorescence

AASHTO- T259 - 89: Chloride Ion Penetration



BS 1881: Part 122 : Method for determination of Water Absorption.

BS - 1881 - 122: 1983 : - Water absorption of concrete cylinders.



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 Engineering



**Negative Hydrostatic Pressure Test.** :- Passed 60 psi. no visible failure. Procedure for determination of Water Permeability of Concrete.

GHD standard test method.