Engineer Plus Aquasil-99

Penetrative Waterproofing Chemical

Description

Aquasill-99 is a 100% Reactive Organosilane Nano - Sealer.
When applied on a siliceous substrate, it penetrates up to 2 mm inside the substrate and becomes an integral part of the structure. It converts the nature of the substrate from hydrophilic to hydrophobic. Aquasill-99 is water dilutable, safe, sprayable and easy to apply. Aquasill-99 acts like a 'skin' up to 2 mm deep for your building as against a polymer or paint film that acts like a 'Band-Aid' on your Building. The peel-off issues are eliminated as Aquasill-99 is non-leachable & UV-Resistant. It has a dual property of preventing of ingress of liquid water while allowing moisture vapours to escape.

Areas of Application

- **Waterproofing Membrane** : Roof terraces, sunken portion of toilets & bathrooms, chhajas, balcony, etc.
- **Concrete Repairs** : Spalled concrete of slabs, chhajas, beams, columns, parapet, floor, etc.
- **Waterproofing &/or Bonding Primer** : Walls & slabs

Features & Benefits

- Novel Bacteria Based self-Repairing Nanotechnology of waterproofing.
- Easy to apply, economical, water repellent property maintained for years (20+years.)
- Breathable coating allows water vapour to pass. Keeps substrate dry. No detoriation occurs.
- The treated surface turns hydrophobic and no longer allows to penetrate water into cracks. It cannot be wetted by water.
- Reduces thermal conductivity.
- Through capillaries drastic reduction in water uptake.
- Resistant to Abrasion, Thermal, UV.
- No shining, no tackiness, No health risk.
- Environment friendly.

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Method of Application

- The substrate should be cured, dry and free from internal voids (honey combs).
- If honey combs are present, drill a hole and inject Engineer Plus Aquasil-99 solution 1:20 in water. Allow it to dry and then inject a suitable grout to fill and close the hole.
- For substrates with oil, grease, fungal growth etc., clean and dry the surface thoroughly before application.
- Engineer Plus Aquasil-99 should be diluted with potable water (TDS <1000 ppm) to obtain a clear transparent solution.
- The diluted solution should be liberally sprayed with low pressure until flood saturation is achieved.
- Flood saturation on horizontal surfaces means no further absorption of Engineer Plus Aquasil-99 even after 5 minutes of saturation.
- On vertical surfaces apply Engineer Plus Aquasil-99 from bottom to the top to eliminate drip-mark formation.
- To achieve full saturation on vertical surface, after repetitive light spray (3-4 times after 30-45 seconds) the solution should drip down the wall.
- Both applications are best done at a temperature between 10ºC (50oF) to 35ºC (95oF). It is best to do the application during the morning or evening hours to avoid peak heat of the Sun.
- For doing any Screeding / Plastering / Tiles / Paint Work on the treated surface, Engineer Plus Aquaprime-99 (Acrylic Binder) must be added to the Engineer Plus Aquasil-99 Solution during preparation in the recommended ratio of 2 parts of Engineer Plus Aquaprime-99 1 part of Engineer Plus Aquasil-99 & 20 parts of water.

Technical Information

PROPERTIES	SPECIFICATION	RESULTS
Form		Light Pale Yellow Clear Liquid
Viscocity	@ 25ºc	< 100 cps
Specific Gravity		0.91 ± 0.01
Flash Point		12ºc
Odour		Low Odour
Solubility (in Water)		Easily Soluble
pH	Approx	6 ± 1
Dilutant	Clean Potable Water TDS	< 1000 ppm
pH		6.5 to 7

Engineer Plus
Permanent & Guaranteed
Water Proofing Solutions

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PACKING

1LTR

5LTR

10LTR

20LTR

Head Office
61, Jawahar Marg, Near Sanjay Setu, Indore, MP 452007
Ph. 9329577550 Email : engineerplusindia@gmail.com
Web : www.engineerplus.in / www.icoindia.co.in