# DryCoat™

Penetrative Nano Sealer

Zydex®

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Creation and preservation of infrastructure is critical for sustained progress of a country. It is imperative to protect infrastructure from weathering effects to prevent aesthetic damages.

## AESTHETIC DAMAGES

- Efflorescence
- Paint Peel off / Blisters
- Fungus / Mold (Mildew)

Conventional waterproofing & water repellents give short term protection by forming surface films which are vulnerable to UV radiation, heat and abrasion.

Fungus

Paint Peel Off

Efflorescence

DryCoat™
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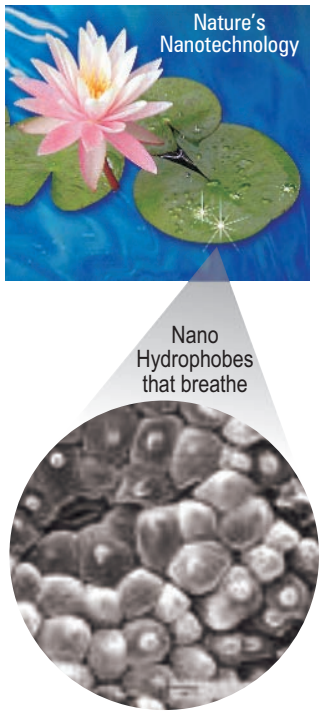
100% Silane | Eco-Friendly | Long Life

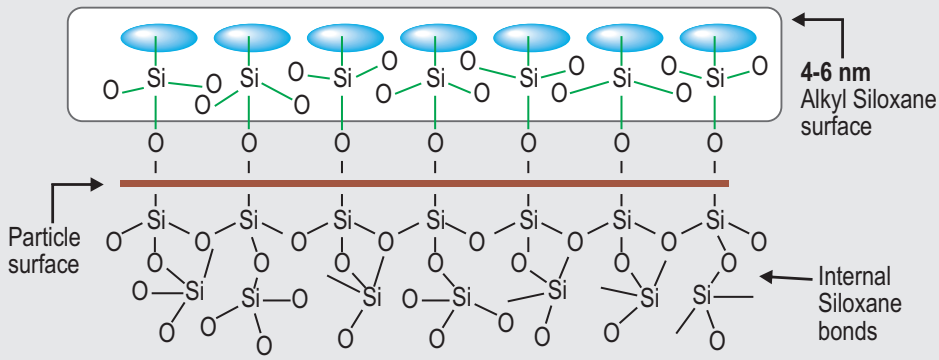



## NANOTECHNOLOGY

DryCoat is 100 % Organo Silane Reactive Nano-sealer, Eco friendly, Water soluble Nanotechnology. It penetrates upto 1 mm into all concrete pores / cement surfaces offering a 360° envelope and creates a breathable monolithic membrane to eliminate seepages.

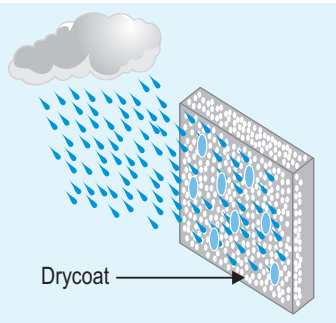
It is inspired by Nature's Nanotechnology and mimics lotus leaf mechanism.

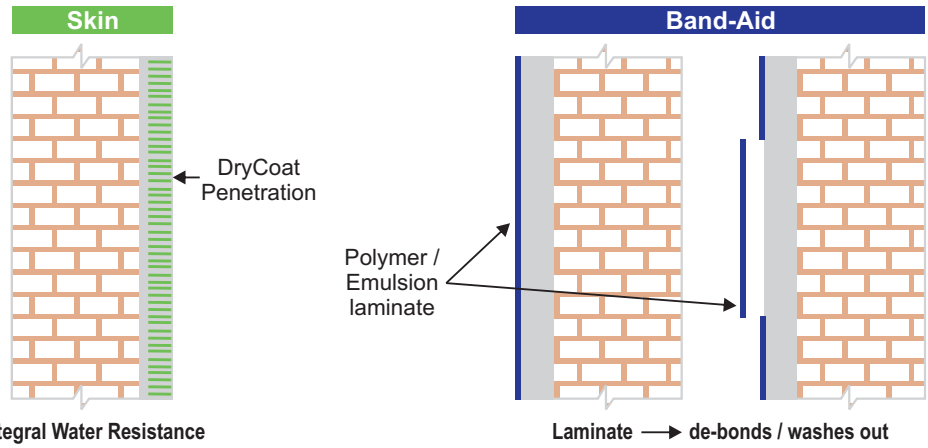
**DryCoat creates molecular level hydrophobic zone (water resistant)**




## WATER RESISTANCE Vs SURFACE REPELLENCE

Drycoat & Zycoplug offers long term Water Resistance, confirmed by Rilem Test.




Surface repellence loss (wetting of the surface) is observed due to external dust / pollen.

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## ONE STEP SILANE ACRYLIC PENETRATIVE WATER RESISTANCE SYSTEM

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- Keeps the structures dry and breathable
- Maintains aesthetics - resists algae, mold & fungus formation
- Hydrophobizes nano pores and penetrates upto 1 mm
- Excellent bonding of cementitious surface to paint emulsion
- Replaces primer for external paints

ZYCOPLUG

- Zycoplug Polymer is added to DryCoat for one step spray
- Wets and penetrates into the pores and cracks
- Improves bonding and spreading of paint

## COVERAGE

| Area | Solution Mix (Qty. in ltrs.) | | | Cementitious Plaster/Concrete | | Brick/ Stone $m^2$ |
|---|---|---|---|---|---|---|
| | DryCoat Penetrative Nano Sealer | Water (TDS < 1000 ppm) | ZYCOPLUG | Painted $m^2$ | Non painted $m^2$ | |
| Coastal | 1 | 20 | 1 | 100 | 70 | 50 |
| Non-Coastal | 1 | 40 | 2 | 200 | 140 | 100 |

## METHOD OF USE

**Surface Preparation:**
No surface preparation is required for new surfaces. Clean the old surfaces by wire brush.

**DryCoat Solution + Zycoplug:**
Add DryCoat to potable water (TDS < 1000 ppm) to obtain clear transparent solution. Add Zycoplug to DryCoat solution immediately and use within 4 - 8 hours.

**Application:**
Apply to saturation by Spray or Roller brush.

**Post Activity:**
Painting can follow after 2-4 hours of application.

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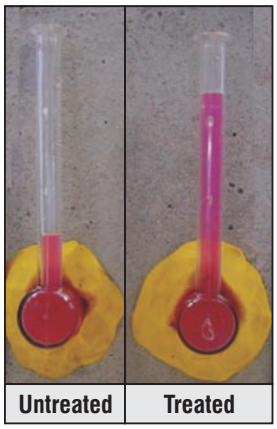
## APPLICATIONS

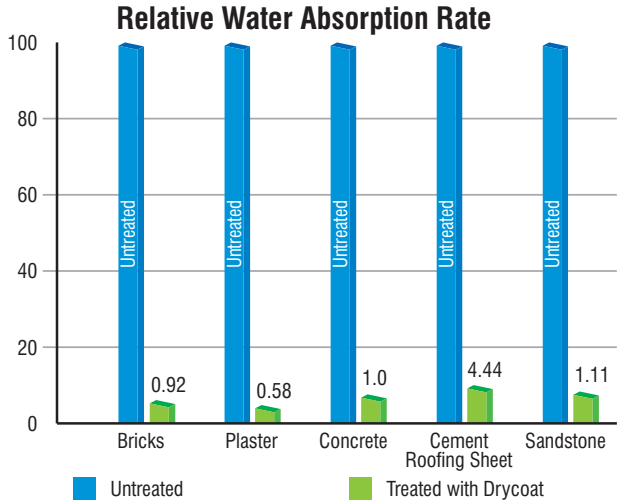
Painted Surface, New Cement Plaster / Concrete, Stone, Bricks.

## TESTS OF WATER RESISTANCE

### i) RILEM TEST

Affix Rilem tube on substrate's surface & fill water column up to 5 ml. Water absorption of less than 0.2 ml in 20 minutes confirms acceptable water resistance. The water column pressure in RILEM test is equivalent to the pressure generated by 140 Km/hr wind driven rain.




### ii) SCRATCH / ABRASION TEST

To confirm depth of penetration and nano modification, scratch 0.2 to 0.3 mm DryCoat treated surface with a blade / knife. Put a drop of water on the scratched surface as well as on the scratched powder material.

Dry surface / powder confirms water resistance.

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## TECHNICAL SPECIFICATIONS

| PARTICULARS | DryCoat* Penetrative Nano Sealer | ZYCOPLUG |
|---|---|---|
| Appearance | Pale Yellow liquid | Milky White liquid |
| Viscosity at 25 °C | 20 - 100 cps | 10 - 100 cps |
| Specific gravity | 0.91 ± 0.02 | 1.02 ± 0.02 |
| Flash Point | Flammable 12 °C | Water base, Non flammable |
| **PACKAGING** | 1 / 5 / 20 ltrs. | 1 / 5 / 20 ltrs. |

## STORAGE

Store under shaded area away from direct sunlight between 5 °C to 45 °C. Keep away from heat, ignition / sparks and from rain / standing water.

Keep the container tightly closed after every withdrawal (*product can start reacting with moisture in the ambient air) when not in use, in a dry and cool place.

## SHELF LIFE

24 months when stored as recommended.



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