

# Zydex<sup>®</sup>

Innovating for Sustainability



## Waterproofing Simplified

One Stop Solution for  
All Waterproofing Problems

Established in 1997, Zydex is one of India's fastest growing Specialty Chemicals Company. Recognized amongst the Most Innovative Companies of India by the Confederation of Indian Industries, Zydex strives to create endearing values and a sustainable world through persistent innovation and conservation of resources.

At Zydex all the basic necessities of a common man i.e. **ROTI, KAPDA, MAKAAAN and SADAK** (Food, Clothing, Housing and Roads) are taken care of. Sincerely committed to building ecological chemistries for a greener future through its robust portfolio of patented technologies, Zydex offers a diverse set of groundbreaking solutions for the **Agriculture, Textiles, Construction and Pavement** industries.

As one of India's valued and respected companies, Zydex has taken upon itself the responsibility to envision the future needs of its esteemed customers through its globally patented technologies, cutting-edge research and deep consumer insights and create a positive sustainable future for all.

Zydex has to its credit over 200+ innovative solutions that have earned the enterprise various honors and accolades over the years. The company has won several awards for innovation in the field of Roads, Agriculture Development, and Business Practices. The company has also earned accolades for its cutting edge Research in science and technology.

As a global player with presence in over 40 countries, Zydex believes that its untiring pursuit of creating eco-friendly, non-hazardous innovative technologies designed to conserving, protecting and enhancing the environment, will ensure a greener future for the mankind.

The competitiveness of the patented technologies offered by Zydex across diverse sectors rests on the strong foundation of its differentiated product offering derived from the technical knowhow, state-of-the-art infrastructure, robust marketing and distribution network, leading edge R&D and the most focused team that works relentlessly towards making a brighter future for the global citizens. The company believes that it is the intellectual capital and not the tangible assets that drive the majority of its enterprise value and hence it has adopted the 'People First approach'. Life at Zydex is all about inclusiveness, employee engagement and fostering innovation. Thus the company has always focused on a very strong culture of appreciation, encouragement and reward for its intellectual capital, to attract and retain its employees.

Driven by innovations, sustainability & Gandhian principles, Dr. Ajay Ranka's life revolve around the purpose of making this World a better place. Presently serving as the CEO and Managing Director of Zydex Industries, Dr. Ajay Ranka is at the forefront of providing innovative & sustainable solutions in roads, textiles, agriculture, waterproofing and paint segments.

With the vision to influence segments that are basic necessities of every human being, he established Zydex Industries in 1997 by venturing into the textile chemical business. Since then, he has only looked ever-upward by expanding the arms of Zydex in the agriculture, roads, waterproofing and paints sector through 200+ innovative products & solutions.

Most of Dr. Ranka's work revolves around his motto of “conserving limiting resources and extend their lifecycle”. He has put Zydex on the global map with footprints in over 20 countries. In his career spanning over 30 years, he has received various Awards and Accolades including FGI award for research in Science & Technology, FGI award for excellence for Outstanding Entrepreneur, and also serves as one of the board members of the International Road Federation.

His larger than life vision, child-like enthusiasm in learning new technologies and unmatched dedication, backed with passion & humility with sustainability at the core has led him author many patents registered and granted in United States, Europe, India 100 other countries.



**Dr. Ajay Ranka**  
Chairman & MD,  
Zydex Group

# Organosilane Based Reactive Waterproofing Technology



ZycoSil+ is a reactive organosilane based water proofing agent that seals upto nano-pore level. It has an ability to penetrate upto 2 mm deep inside the substrate and becomes a permanent integral part of the structure. It reacts and converts the hydrophilic chemical groups of the substrate into hydrophobic groups. ZycoSil+ is water dilutable, safe, sprayable and easy to apply. ZycoSil+ is non-leachable, UV resistant, breathable and does not present peel-off issues unlike conventional polymer coatings.

## FEATURES

- ✓ Organosilane Technology
- ✓ Reactive, Penetrative & Permanent
- ✓ Easy to Apply
- ✓ Breathable & UV Resistant
- ✓ Protects against Algae and Fungal Growth
- ✓ Waterproofs Vertical and Horizontal Surfaces
- ✓ Protects Substrate from Deterioration due to Weathering

**Toll Free:  
1-800-12300-7666**

[www.zydexindustries.com](http://www.zydexindustries.com)

## SPECIFICATIONS

Form: Light Pale Yellow Clear Liquid  
Viscosity @ 25°C: < 100 cps  
Specific Gravity: 0.91 ± 0.01  
Flash Point: 12°C  
Odour: Low Odour  
Solubility (in Water): Easily Soluble  
pH: Approx. 6 ± 1  
Dilutant: Clean Potable Water TDS < 1000 ppm  
pH - 6.5 to 7

### Coverage

Horizontal: 24-40 m<sup>2</sup> (260-430ft<sup>2</sup>)  
Vertical: 60-100 m<sup>2</sup> (645-1075 ft<sup>2</sup>)  
Actual coverage may vary as it depends upon permeability and absorption characteristics of the substrate.

## APPLICATION METHOD

- The substrate should be cured, dry and free from internal voids (honey combs).
- If honey combs are present, drill a hole and inject ZycoSil+ 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.
- ZycoSil+ 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 ZycoSil+ even after 5 minutes of saturation.
- On vertical surfaces apply ZycoSil+ 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 10°C (50°F) to 35°C (95°F). 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, ZycoPrime+ (Acrylic Bonder) must be added to the ZycoSil+ Solution during preparation in the recommended ratio of 2 parts of ZycoPrime, 1 part of ZycoSil+ & 20 parts of water.

### PACKING

100 & 250 ml.  
1,5 & 20 ltrs.

### STORAGE

Store Between +5°C and +45°C.

### SHELF LIFE

4 years if stored as recommended.

# Acrylic Based Sealing, Bonding & Admixture Agent

**Zydex**<sup>®</sup>  
Innovating for Sustainability



## **ZYC** **PRIME** + **ACRYLIC SEALER & BONDER**

ZycoPrime is an acrylic co-polymer emulsion supplied as a ready to use bonding agent with superior wet adhesion and universal compatibility. It is also a versatile latex that can be used as a cement modifier for spalled concrete slabs, overhangs, beams, columns and floors. It is also used as a bonding primer and porosity filler with ZycoSil+ during waterproofing applications.

## FEATURES

- Sealing & Bonding Agent
- Multipurpose & Economical
- Excellent Wet Adhesion
- Universal Compatibility
- Excellent Bonding to Cementitious Concrete & Plaster Surfaces
- High-performance Cement Admixture

**Toll Free:**  
**1-800-12300-7666**

[www.zydexindustries.com](http://www.zydexindustries.com)

## APPLICATION AREAS

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

## APPLICATION METHOD

Clean the surface with wire brush or scrubber to remove hidden dirt, loose particles, laitance and dust. Use air blower to clean the surface. De-grease the surface by using suitable solvents if needed. Always use ZycoPrime+ with ZycoSil+ solution, for seepage proofing.

- **Bonding Primer**  
To be used as a clear bonding primer by diluting 1 : 5 with water. Apply on the walls before painting or during putty rendering.
- **Waterproofing Primer**  
For priming of concrete substrate, the surface should be thoroughly saturated with ZycoSil+ solution (Dilution Ratio - 1 part ZycoSil+ : 20 parts potable Water : 2 parts of ZycoPrime+).
- **Waterproofing Membrane**  
For a waterproofing coating mix 1 part ZycoPrime+ with 1 part of cement & 1 part of 100 mesh sand. Add water for brushability.  
Brush apply the mix in span of 4-6 hours on the prepared concrete substrate. It is recommended to saturate the surface with ZycoSil+ solution prior to this application.  
Overlay the coating with a protective screed to the desired slope and thickness.  
Coverage : 4-5 m<sup>2</sup> for a 0.2 mm (200 microns) coat.
- **Repair Mortar & Renders, Floor Screed & PCC**  
Prepare the Mortar in the following proportion:
  - Cement 50 kg
  - Washed Sand 75 kg
  - 6 mm Down size aggregates 75 kg
  - ZycoPrime+ 6-7.5 litres
  - Water 10 litresFor PCC & Plaster work : ZycoPrime+ 100 ml per bag cement (conforms to IS 2645 - 2003)

## SPECIFICATIONS

Form : Milky White, Free flowing Liquid  
Specific Gravity : 1.01 to 1.02  
Solid content : 35 ± 1%  
Viscosity @ 25°C : <500 cps

pH @ 25°C : 6 to 7  
Diluent : Clean Potable Water TDS < 1000 ppm  
Flash Point : Non Flammable

## COVERAGE

**Vertical Surfaces (Concrete, Brick & Stone)** : Approx. 60-100m<sup>2</sup> (645-1075 ft<sup>2</sup>) per 2 litres of ZycoPrime+ diluted in a 21 litre solution of 1:20 ZycoSil+ solution in water.

**Horizontal Concrete Surfaces** : Approx. 24-40m<sup>2</sup> (260-430 ft<sup>2</sup>) 2 litre of ZycoPrime+ diluted in a 21 litre solution of 1:20 ZycoSil+ solution in water.

The coverage may vary depending upon permeability of the substrate and surface absorptivity.

### PACKING

250ml, 1, 5, 20ltr & 35 ltr.

### STORAGE

Store Between +5°C and +45°C.

### SHELF LIFE

4 years if stored as recommended.

# High Performance Acrylic Based Waterproofing Elastomeric Membrane

**Zydex**<sup>®</sup>  
Innovating for Sustainability



**ELASTOBAR**  
STRETCHABLE CRACK BRIDGING MEMBRANE

Elastobar is a high performance elastomeric membrane for crack bridging. It features curing through crosslinking and is highly UV durable. It features ability to elongate upto 250 percent. It can be used on variety of substrates as a mortar mix with sand and cement.

## FEATURES

- ✓ High Elongation Elastomeric Waterproofing Membrane
- ✓ Crosslinking & UV Durable
- ✓ 250 Percent Elongation
- ✓ Can be Used as a Mortar Mix with Sand and Cement

Toll Free:  
1-800-12300-7666

[www.zydexindustries.com](http://www.zydexindustries.com)

## DESCRIPTION

An acrylic co-polymer emulsion, used to form on-site seamless, cross-linked elastomeric membrane on the concrete. The polymer composition ensures excellent UV stability, high strength and elongation of up to 250%.

## APPLICATION AREAS

Roof Terrace, Sunken, Balconies & Utilities, Podiums, Water Tanks and STP (Sewage Treatment Plants), Basements, Retaining Walls, Water Reservoirs etc.

## APPLICATION METHOD

### Surface Preparation

- Clean the surface by chipping and removing loose cement mortar. Clean dust by air blower, industrial vacuum cleaner, followed by high pressure water-jet cleaning. Allow the surface to dry. Clean the surface again with vacuum cleaner. Do seepage proofing with ZycoSil+ & Zycoprime+ solution as per guidelines given in the waterproofing leaflet.
- Smoothen the horizontal / vertical concrete surface.

### Repair Work

- Attend damaged / spalled concrete with Elastobar mixed mortar. For filler, the mixing ratio is 1 kg cement : 1.5 kg fine sand : 0.25 kg of Elastobar : Water 0.4 to 0.5 litre. Cure with water for 2-3 days.

### Membrane Top Coat

- Mix 1 part Elastobar, 1 part fine sand and 1 part cement. Stir to get uniform paste. Add upto 50 ml water to get brushable consistency. Apply with brush / roller.

**Curing & Drying :** Sun dry ( $\geq 25^{\circ}\text{C}$ ) for 6 - 12 hours.

## SPECIFICATIONS

Form : Milky White, Free flowing Liquid

Specific Gravity :  $1.02 \pm 0.01$

Solid content :  $50 \pm 1\%$

Viscosity :  $< 500$  cps

pH @  $25^{\circ}\text{C}$  : 7.5 to 8.5

Diluent : Clean Potable Water TDS  $< 1000$  ppm

Flash Point : Non Flammable

Elongation : up to 250%

### COVERAGE

Membrane coating with cement :  
18-20 Sq.ft. per 2 coats

### PACKING

250g, 1, 5 and 20kg.

### STORAGE

Store between  $+5^{\circ}\text{C}$  and  $+45^{\circ}\text{C}$ .

### SHELF LIFE

2 years if stored as recommended.

# High Performance Reactive & Flexible Bonding Agent for Concrete Cold Joints, Plaster & Gypsum Bonding



Cold Bond is an acrylic based high performance bonding agent that is reactive and flexible for use in concrete/concrete and concrete/plaster joints. It exhibits a pull off adhesion strength equal to 17 N/mm<sup>2</sup> and is highly water resistant ensuring a permanent joint between structures.

## FEATURES

- ☑ Reactive Bonding to Concrete & Plaster Surfaces
- ☑ Strong and Flexible Bond resulting in Monolithic Joints
- ☑ Highly Water Resistant
- ☑ Pull-off Strength of 17 N/mm<sup>2</sup>

Toll Free:  
1-800-12300-7666

[www.zydexindustries.com](http://www.zydexindustries.com)

## THE CHALLENGES

Joint between the old & newly cast part becomes a weak link due to migration of water from newly cast concrete to cured side.

PCC / RCC are cast in parts, leading to joints which develop cracks due to thermal cycling and shrinkage stresses. The junction of PCC or RCC structures with bricks walls also has joints which develop cracks. This leads to seepage / leakage.

## ABOUT COLDBOND

- A new generation of acrylic copolymer technology
- Exhibits dual properties of reactive and acrylic copolymer
- Imparts very high strength through molecular level reactive bonding
- Makes the joining interface water resistant
- Ensures flexible polymeric film formation at the interface

This results in formation of a very strong and flexible bond and creation of monolithic joints.

Boil testing of simulated joint done with ColdBond confirms water resistance & wet bond strength.

## SPECIFICATIONS

Form : Translucent Liquid Dispersion

Specific Gravity : 1.0 to 1.2

Solid content : 35 ± 1%

Bulk Viscosity : < 200 cps

pH : 5.5 - 6.5

Solubility (in Water) : Easily Dispersible

Flash Point : Above 85°C

Particle Size : < 95 nm

### PACKING

1, 5, 20 litres

### STORAGE

Store between +5°C and +45°C.

### SHELF LIFE

4 years if stored as recommended.

## APPLICATION AREAS

RCC to PCC interface, RCC to RCC joints, RCC (Beam / Column) to Masonry joints, RCC / PCC Bricks to Coving joints, RCC to Gypsum, RCC to POP, PCC / Plaster to PCC / Plaster (repair) interface, RCC / Bricks to Plaster interface.

## APPLICATION METHOD

Use ColdBond as it is or in diluted form (with potable water @ 1:1) based on the application need. Spray / Brush / Roller apply on the construction joints of concrete, plaster, gypsum or bricks. **(Brush / Roller. Keep soaked in water)**

Application window from 30 mins. to 72 hours.

**DO NOT MIX COLDBOND WITH CEMENT**

## COVERAGE

40-50 ft<sup>2</sup> per litre for undiluted ColdBond

80-100 ft<sup>2</sup> per litre @ 1:1 dilution (Coverage may vary depending upon surface)

# Reactive Adhesive for Ultimate Tile Fixing Performance

**Zydex**<sup>®</sup>  
Innovating for Sustainability



## ZycoFix

ZycoFix is an acrylic based high performance bonding agent that is reactive and flexible for use in tile fixing to concrete and plaster surfaces. With a pull off adhesion strength equal up to 17 N/mm<sup>2</sup> and high water resistance, It ensures an extremely strong and permanent joint between the tile and the underlying substrate. Tiles and stones up to 4 m<sup>2</sup> can be fixed.

## FEATURES

- ✓ Reactive Bonding of Tiles to Concrete & Plaster Surfaces
- ✓ Strong and Flexible Bond Resulting in a Permanent Joint
- ✓ Highly Water Resistant
- ✓ Pull-off Strength up to 17 N/mm<sup>2</sup>
- ✓ Tiles and Stones up to 4 m<sup>2</sup> can be Fixed

Toll Free:  
1-800-12300-7666

[www.zydexindustries.com](http://www.zydexindustries.com)

## SPECIFICATIONS

Form : Translucent Liquid Dispersion  
 Specific Gravity : 1.0 to 1.02  
 Bulk Viscosity : < 200 cps  
 pH : 5.5 to 6.5

Solubility (in Water) : Easily Dispersible  
 Flash Point : Above 85°C  
 Particle size : < 95 nm

ZYCOFIX GRADE	SOLIDS	APPLICATIONS
Super	17 ± 1%	Strong bonding for Large Tiles up to 2 m <sup>2</sup>
Ultra	35 ± 1%	Strong bonding for Large Tiles / Stones up to 4 m <sup>2</sup> size

## APPLICATION AREA & METHOD

### ZycoFix Super (large tiles up to 2 m<sup>2</sup>):

- Apply (Brush or Spray) ZycoFix Super on the reverse side of the tile and let it dry for 30 minutes.
- Apply ZycoFix Super on the plastered cementitious surface on which the tile is to be fixed. Let it dry for 30 minutes.
- Apply 3 to 5 mm mortar (1:2 cement and fine sand < 100 mesh) layer on the plastered cementitious surface on which the tile is to be fixed.
- Immediately fix the tile on the surface where mortar has been applied.  
 Allow a curing period of 28 days under normal weather conditions for best results.

### ZycoFix Ultra (for large tiles / stones\* up to 4 m<sup>2</sup>):

- Apply (Brush or Spray) ZycoFix Ultra on the reverse side of the tile and let it dry for 30 minutes.
- Apply ZycoFix Ultra on the plastered cementitious surface on which the tile is to be fixed. Let it dry for 30 minutes.
- Apply 6 to 8 mm mortar (1:2 cement and fine sand < 100 mesh) layer on the plastered cementitious surface on which the tile is to be fixed.
- Immediately fix the tile on the surface where mortar has been applied.
- Allow a curing period of 28 days under normal weather conditions for best results.

*\* For highly porous stone, apply one coat of Elastobar on the back side of the stone, allow it to dry for 6-8 hours. Then apply ZycoFix Ultra on Elastobar treated surface.*

**DO NOT MIX ZYCOFIX WITH CEMENT**

ZycoFix is not recommended for non porous stones & tiles

## COVERAGE

Super & Ultra : 45 - 55 sq. ft. per kg when applied as per specifications laid by Zydex.  
 (Coverage may vary depending upon surface roughness & porosity)

### PACKING

1 & 5 kg.

### STORAGE

Store Between +5°C and +45°C.

### SHELF LIFE

4 years if stored as recommended.

# Integral Waterproofing Liquid & Water Reducing Admixture for Concrete and Mortar

**Zydex**<sup>®</sup>  
Innovating for Sustainability



## **ZYCRETE 2X** NEXT GENERATION

Zycrete 2X is a next generation liquid admixture used for cement-based applications, concrete and mortar structures. It reduces permeability of concrete/mortar thus imparting prolonged waterproofing and durability. Zycrete 2X can be used with all types of cement/sand and is ideal for critical applications like roof slabs and screeds, basements, external plastering, bathroom floors, water tanks, sumps, drains, etc.

## FEATURES

- ✓ Improves Workability
- ✓ Enhances Concrete Quality
- ✓ Minimises Porosity and Honeycombing
- ✓ Increases Setting Time
- ✓ Higher Strength

**Toll Free:**  
**1-800-12300-7666**

[www.zydexindustries.com](http://www.zydexindustries.com)

## ZYCRETE 2X APPLICATION GUIDELINE

### Advantages

**Improves workability :** Improves compaction and setting of concrete and mortar (up to M 40 grade), even where harsh sands or aggregates are used.

**Enhances concrete quality :** It maintains compressive strength equal to control and can even improve on strength property if the full advantage of water reduction potential is utilised.

**Minimises porosity and honeycombing :** Produces dense homogenous concrete.

**Develops faster and higher strength in all cemented applications.**

**Standards Compliance :** Zycrete 2X conforms to IS: 2645-2003

**Description :** Zycrete 2X is a dark brown liquid based on the next generation of lignosulfonate polymers and formulated to mix readily with water for preparing the mix.

**Dosage :** 100 ml per 50 kg bag of cement is the recommended dose.

### Properties

**Chloride content :** As per IS: 2645-2003

**Permeability :** It reduces the permeability of water into concrete or mortar and increases the durability

**Compatibility :** Can be used with all types of cement including pozzolanic but not High Alumina Cement.

**Setting Time :** Can Maximize Initial setting time by 2 hours

**Comprehensive Strength :** Comprehensive Strength of the Concrete remains within the specification limits

**Shrinkage :** Reduces shrinkage / crack development in plaster and concrete due to reduced water requirement.

### Application Instructions

**Mortar:** Zycrete 2X is ideal for use with all sand/cement mortars where it is required to reduce permeability to a minimum. Its High efficiency causes a reduction in permeability of concrete/ mortar which requires 15-20% less water.

**Concrete:** Zycrete 2X is recommended to minimize the porosity and permeability of concrete, where harsh aggregates are used and difficulty of compaction arises Eg. Basements, bund walls, tanks, balcony, floor and roof slabs. Zycrete 2X can be easily mixed with entire recipe water & then added to the concrete or mortar and mixed thoroughly. Water shall be added until the required workability is obtained.

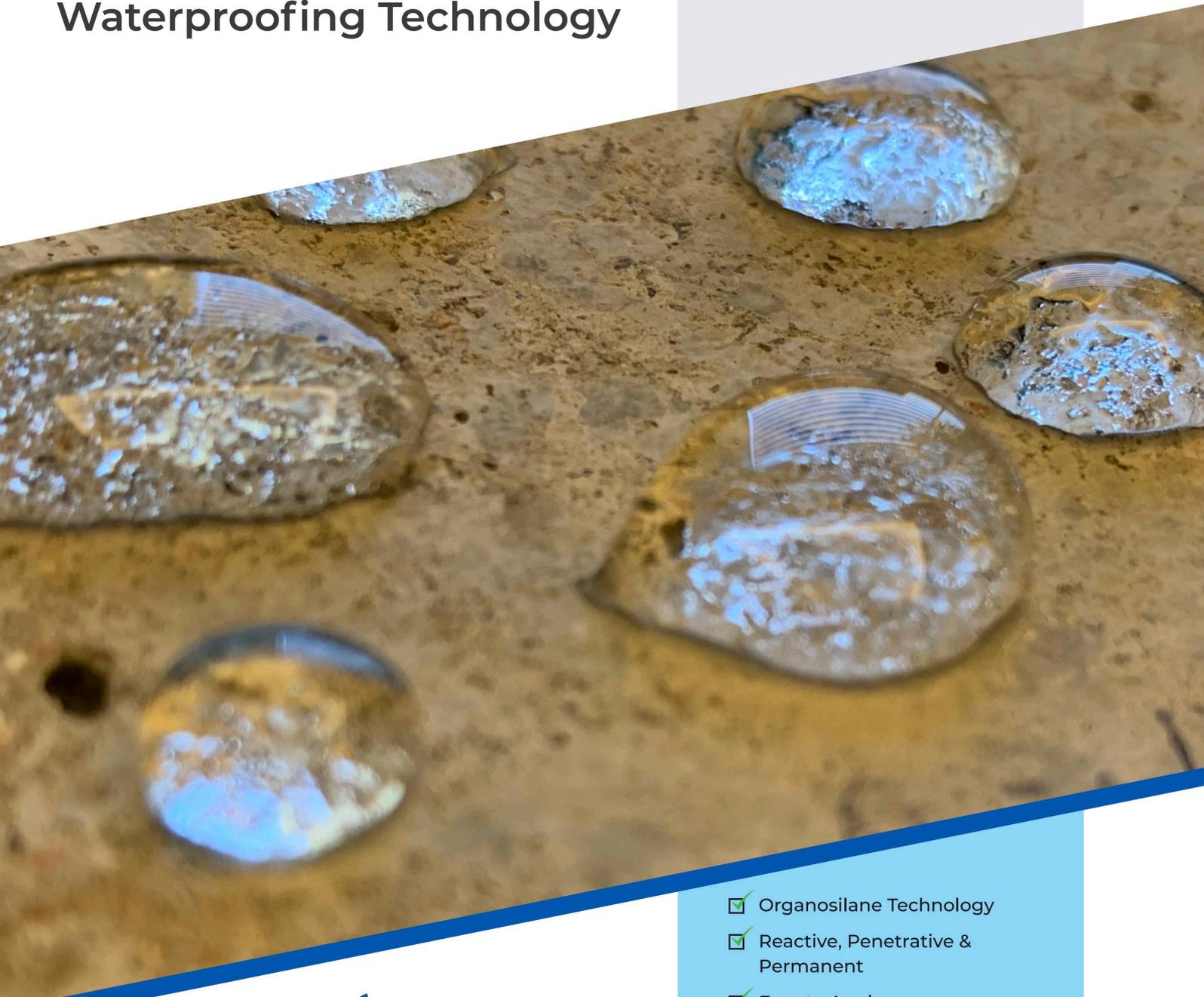
**Note:** If the moisture content of the sand or aggregate changes i.e., it becomes wetter or dryer, then the amount of water used must be reduced or increased to achieve desired workability.

### Packaging

Zycrete 2X is available in 500 ml, 1, 5 and 20 liter containers.

# New Generation Organosilane Reactive Waterproofing Technology

**Zydex**<sup>®</sup>  
Innovating for Sustainability



**ZYCOSIL** **MAX**  
PENETRATIVE WATERPROOFING

Zycosil Max is a new generation reactive organosilane based water proofing agent that seals nanopores & nano - cracks. It is concentrated, highly penetrative & a strong water-repellent. It has an ability to penetrate up to 4 mm deep inside the substrate & become an integral part of the structure. Hence a membrane coat is not mandatory. Zycosil Max is water dilutable, safe and easy to apply by roller & brush. It is non - leachable, UV - resistant, breathable & does not present peel-off issues like conventional polymer coatings.

## FEATURES

- ✓ Organosilane Technology
- ✓ Reactive, Penetrative & Permanent
- ✓ Easy to Apply
- ✓ Breathable & UV Resistant
- ✓ Penetrates Deep up to 4 mm
- ✓ Suitable for Vertical and Horizontal Surfaces
- ✓ Protects Substrate from Deterioration due to Weathering
- ✓ Protects against Algae and Fungal Growth
- ✓ No Membrane Required

**Toll Free:**  
**1-800-12300-7666**

[www.zydexindustries.com](http://www.zydexindustries.com)

## APPLICATION METHOD

### Solution Preparation

ZycoSil Max must be diluted with potable water (TDS below 1000 ppm) to obtain a clear transparent solution.

Test the water quality before making ZycoSil Max solution. Take 225 gm water in a clean beaker; add 5 gm of ZycoSil Max to it under manual stirring, till ZycoSil Max dissolves. A clear solution indicates good water quality. If the sample solution turns turbid / whitish the water quality is not acceptable. In rare cases when turbidity is seen even in potable water do not use ZycoSil Max and contact Zydex representative.

Prepare ZycoSil Max solution by mixing ZycoSil Max with water in ratio of 1: 45.

Table - 1

Solution Code	Application Areas	ZycoSil Max (ltrs.)	Water (ltrs.)	ZycoBond Max (ltrs.)	Total Volume (ltrs.)	Approximate Coverage (depends on the permeability of the substrate and the surface absorption)
S1	All exposed surfaces like clay roof tiles, tile joints, IPS layers, walkways, paved surfaces	1	45	0	46	25-40 m <sup>2</sup> (270-430 ft <sup>2</sup> )
S2	Basement, Sunks, Mother slabs, Pre Stone Cladding, Priming before IPS / Plastering / Tiles	1	45	0	46	25-40 m <sup>2</sup> (270-430 ft <sup>2</sup> )
S3	Stones, Plastered & Concrete structures	1	45	0	46	25-40 m <sup>2</sup> (270-430 ft <sup>2</sup> )
S4	Exposed Bricks/ Fair faced concrete	1	45	0	46	25-40 m <sup>2</sup> (270-430 ft <sup>2</sup> )
S5	Priming for Painting	1	45	2	48	80-100 m <sup>2</sup> (860-1075 ft <sup>2</sup> )
S6	Treatment of Honeycomb, Cracks, Cold Joints	1	45	1	47	Till saturation

### Horizontal Surfaces

Ensure the surface is clean and dry, free of loose particles. For effective and long term waterproofing, brush or roll ZycoSil Max solution in the recommended dilution ratio on the area to be treated till saturation, to ensure up to 4 mm penetration into the substrate.

ZycoSil Max is best applied at ambient temperatures of 10 °C to 35 °C. We recommend that the application be done in the morning or evening hours, to avoid peak heat of the sun.

ZycoBond Max solution should be applied on the Zycosil Max treated surface wet-on-wet.

### Vertical Surfaces

Prepare solution of ZycoSil Max with water in ratio of 1 : 45 then add 2 liters of ZycoBond Max to prepared solution.

For achieving best performance, brush or roll above solution from bottom to top.

Full saturation for the vertical surface is achieved when, solution starts dripping upon brushing or rolling.

### Drying

ZycoSil Max treated surfaces becomes waterproof only after the water dries off completely. Check waterproofing by splashing water on the treated surface. If the water droplets remain for at least 10 to 15 minutes, waterproofing and surface curing is confirmed.

For semi-wet areas and during rainy seasons, the procedure for ZycoSil Max waterproofing application is as follows:

Depending on surface wetness and residual water absorption capacity, ZycoSil Max should be diluted with water in the ratio of 1 : 4 to 1 : 10. Overcoat ZycoBond Max solution wet-on-wet as usual. For quick and complete drying, use halogen lamp or hot blower on the surface. Confirm waterproofing on horizontal or vertical surface with RILEM test.

The dilution ratio and the exposure time with the halogen lamp must be decided by the applicator depending on the site conditions.

### Caution:

Do not use ZycoSil Max on non-absorptive surfaces as this may result in white residue from silane condensation on the surface.

**DO NOT USE SPRAYER!**

## SPECIFICATIONS

Form : Pale Yellow Transparent Liquid

Viscosity @ 25°C : 100 - 500 cps

Specific Gravity : 1.18 ± 0.01 @ 30°C

Flash Point: > 75°C

Odour: Slightly Sweet

Solubility (in Water) : Easily Soluble

pH : Approx. 6 ± 1

Dilutant : Clean Potable Water TDS < 1000 ppm

pH - 6.5 to 7

### Coverage

Horizontal: 24-40 m<sup>2</sup> (260-430 ft<sup>2</sup>)

Vertical: 60-100 m<sup>2</sup> (645-1075 ft<sup>2</sup>)

Actual coverage may vary as it depends upon permeability and absorption characteristics of the substrate.

### PACKING

5 Ltr.

### STORAGE

Store Between +5°C and +45°C.

### SHELF LIFE

4 years if stored as recommended.

# Nano Acrylic Sealer & Bonding Agent

**Zydex**<sup>®</sup>  
Innovating for Sustainability



## **ZYCOBOND** MAX

ZycoBond Max is a nano acrylic co-polymer (70-90 nm primary particle size) for improved water resistance for concrete and cement plaster surfaces. ZycoBond Max when used in combination with ZycoSil Max seals and waterproofs siliceous construction materials.

It provides excellent wetting and bonding to the water repellent surfaces and can achieve up to 17 N/mm<sup>2</sup> bond strength. It provides flexible, reactive and water resistant polymer film for long life.

## FEATURES

- Reduces Porosity
- Excellent Water Resistance
- Excellent Wet Adhesion
- Strong Bonding (17 N/mm<sup>2</sup>) to Cementitious Concrete & Plaster Surfaces

**Toll Free:**  
**1-800-12300-7666**

[www.zydexindustries.com](http://www.zydexindustries.com)

## APPLICATION AREAS

- **Horizontal Waterproofing:** To be used in a ratio 1:1 (with water) wet-on-wet after Zycosil Max treatment
- **Vertical Waterproofing:** To be used as part of Zycosil Max solution in ratio of 1:45:2 of Zycosil Max : Water : Zycobond Max

## APPLICATION METHOD

Clean the surface with wire brush, scrubber or air blower to remove hidden dirt, loose particles, laitance & dust. De-grease the surface by using suitable solvents, if needed.

- **Horizontal Waterproofing**  
Zycobond Max solution must be applied wet-on-wet by spray / flooding / roller following treatment of surface with Zycosil Max solution
- **Vertical Waterproofing**  
Prepare solution of Zycosil Max with water in ratio of 1 : 45 then add 2 liters of Zycobond Max to prepared solution  
For achieving best performance, brush or roll above solution from bottom to top.  
Full saturation for the vertical surface is achieved when, solution starts dripping upon brushing or rolling

## COVERAGE

**Horizontal Concrete Surfaces :** Approx. 24-40m<sup>2</sup> (260-430 ft<sup>2</sup>)

**Vertical Surfaces (Concrete, Brick & Stone) :** Approx. 60-100 m<sup>2</sup> (645-1075 ft<sup>2</sup>)

The coverage may vary depending upon permeability of the substrate and surface absorptivity.

## SPECIFICATIONS

Form : Translucent Liquid Dispersion

Specific Gravity : 1.0 to 1.2

Solid content : 35 ± 1%

Bulk Viscosity : < 200 cps

pH : 5.5 - 6.5

Solubility (in Water) : Easily Dispersible

Flash Point : Above 85°C

Particle Size : < 90 nm

### PACKING

5 ltr.

### STORAGE

Store Between +5°C and +45°C.

### SHELF LIFE

4 years if stored as recommended.

# Single Component Silicone Modified Acrylic Elastomeric Membrane

**Zydex**<sup>®</sup>  
Innovating for Sustainability



## **ELASTOMAX**

WHITE STRETCHABLE MEMBRANE

ElastoMax is a high performance elastomeric roof coating designed to be used along with Zycosil Max. It is highly UV durable and has a service life of up to 10 years. It features the ability to bridge cracks up to 1.5 mm. In combination with Zycosil Max, ElastoMax provides a waterproofing system that is a combination of a penetrative barrier with a seamless topcoat resulting in superior performance.

## FEATURES

- UV Durable & Crosslinking
- Crack-Bridging up to 1.5 mm
- 10 years service life
- To be used in combination with Zycosil Max

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1-800-12300-7666

[www.zydexindustries.com](http://www.zydexindustries.com)

## FEATURE & BENEFITS

- ElastoMax is single component Silicone Modified Acrylic Elastomeric Membrane which is flexible & seamless
- Provides excellent water resistance on roof/terrace
- Excellent in bridging gaps up to 1.5 mm
- No extra protection is required over the surface
- Resistant to UV and weather conditions

## APPLICATION AREAS

Generally recommended for Horizontal surfaces requiring waterproofing e.g. Roof / Terrace, Brick Bat, Coba, Concrete Screed, etc.

## APPLICATION METHOD

- (1) Cleaning & surface preparation
- (2) First apply ZycosilMax in the ratio of 1:45 with water as a priming coat over the cleaned surface till full saturation.
- (3) Stir the ElastoMax properly in the bucket till it is of even and flowable consistency. Apply first coat of ElastoMax wet on wet over priming coat using flat brush / roller with dilution of 300ml - 350ml per litre with water. Leave the surface for at least 24 hours for drying.
- (4) After this, second coat of ElastoMax should be applied undiluted using flat brush / roller and left to dry completely. Please DO NOT dilute second coat of ElastoMax.

**NOTE:** Coverage will vary according to the surface profile and porosity of substrate.

## SPECIFICATIONS

Application Temperature : 5°C to 35°C

Appearance : Viscous Liquid

Color : White

Specific Gravity : 1.35

Viscosity : 20000 ± 2000 cps

Solids by Wt. % : 64 - 66%

Elongation : > 400%

### COVERAGE

28-32 Sq.ft. / ltr per two coats

### PACKING

4l & 20l

### STORAGE

Store between +5°C and +45°C.

### SHELF LIFE

2 years if stored as recommended.

# Water Based Acrylic Wall Primer for Interior and Exterior Application

**Zydex**<sup>®</sup>  
Innovating for Sustainability



## *PREMIUM* **WALL PRIMER**

Zydex Premium Wall Primer is an acrylic water based wall primer with excellent bonding and hiding characteristics. It has excellent sandability and provides a smooth base for over-painting. It is suitable for exterior and interior applications.

## FEATURES

- Excellent Opacity
- Excellent Bonding
- Easily Sandable
- Smooth Finish
- Interior and Exterior

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## FEATURES

- Provides excellent opacity and has particularly economical consumption.
- Provides excellent bonding to the base as well as subsequent top-coat.
- Has easy sandability due to high film hardness for smooth finishing.
- Has good flow and levelling resulting in smooth finish.
- Is suitable for interior and exterior application.

## SURFACE PREPARATION

All newly cemented plastered surfaces must be fully cured.

Clean and smoothen the plaster / concrete surface of all dust, foreign matters, loose materials or any deposits of contamination by wire brush / air blower / grinder / high pressure water jet.

For old, previously painted surfaces, scrape and sand the painted surface thoroughly using Emery paper 180 and wash it clean. Allow it to dry.

Fill all the visible cracks with appropriate crack filler. Allow it to dry.

For walls or plastered surface, apply a cement based putty. (Must for interior, optional for exterior). If putty is applied, sand the surface with emery paper 180.

The surface is now ready for primer application.

## PRIMING APPLICATION

**Dilution :** Dilute 1 ltr of Zydex Premium Wall Primer with 0.8 to 1.2 ltrs potable water.

**Application :** Brush, roll or spray 1 coat of Zydex Premium Wall Primer on prepared vertical walls. Allow it to dry for 6-8 hours.

## USAGE AND SAFETY PRECAUTIONS

- Stir before thinning. Avoid extra thinning.
- Remove fungal growth and mould before priming.
- Do not apply when the surface temperature is below 10°C.
- Keep the lid tightly closed. Store in a shaded, ventilated area, away from heat. Prevent freezing.
- Inhalation / Ingestion can be hazardous. Move to fresh air & seek medical assistance. Keep away from children.

## TECHNICAL SPECIFICATIONS

Appearance	White Viscous liquid
Chemical Nature	Acrylic
Dilution Ratio	1 : 0.8 to 1.2
VOC	< 50 gms. / litre

Coverage\*

Interior: 140 - 160 sqft / ltr

Exterior: 100 - 120 sqft / ltr

\*Actual coverage may vary due to factors such as method & condition of application, surface roughness and porosity.

## SHELF LIFE & PACKAGING

Best before 2 years from the manufacturing date, in original sealed container, kept away from heat and direct sunlight. Available 1, 4 & 20 litres.



## ABOUT ZYDEX

Established in 1997, Zydex is a specialty multi division company with the purpose of innovating to create a sustainable world through conservation of resources.

Zydex offers a diverse set of technologies for the Textile, Agriculture, Pavement and Construction industries. We were recently recognised as one of the 25 Most Innovative Companies in India by the Confederation of Indian Industry (CII) in 2018.

### **Sustainable Green Chemistry**

Zydex is deeply committed to sustainable chemistries that will ensure a greener future for everyone. Our commitment has made us a pioneer in introducing non-polluting and non-hazardous technologies that conserve, protect and enhance the environment. Pursuing innovations that would mean a greener, safer and more resource renewable world is our passion. Our technologies have been recognized for their contribution to sustainability and are accepted globally.

