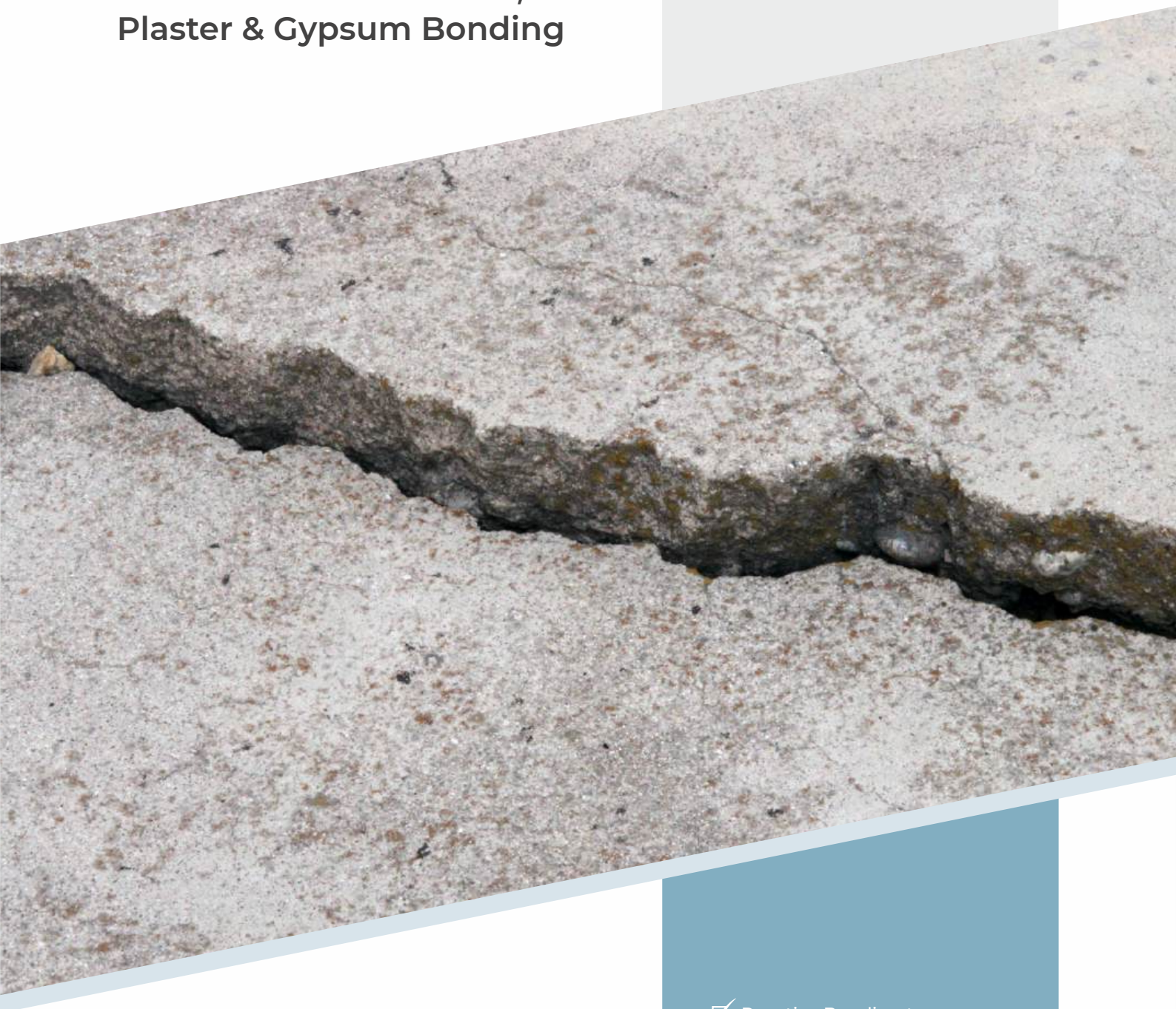
High Performance Reactive & Flexible Bonding Agent for Concrete Cold Joints, Plaster & Gypsum Bonding

Zydex®
Innovating for Sustainability



Cold Bond

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^2 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^2

Toll Free:
1800-12300-7666

www.zydexgroup.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 ft² per litre for undiluted ColdBond
80-100 ft² per litre @ 1:1 dilution (Coverage may vary depending upon surface)

FLEXIBLE • REACTIVE • WATER-RESISTANT

ABOUT ZYDEX

Established in 1997, Zydex is a specialty chemicals company with the purpose of innovating for sustainability.

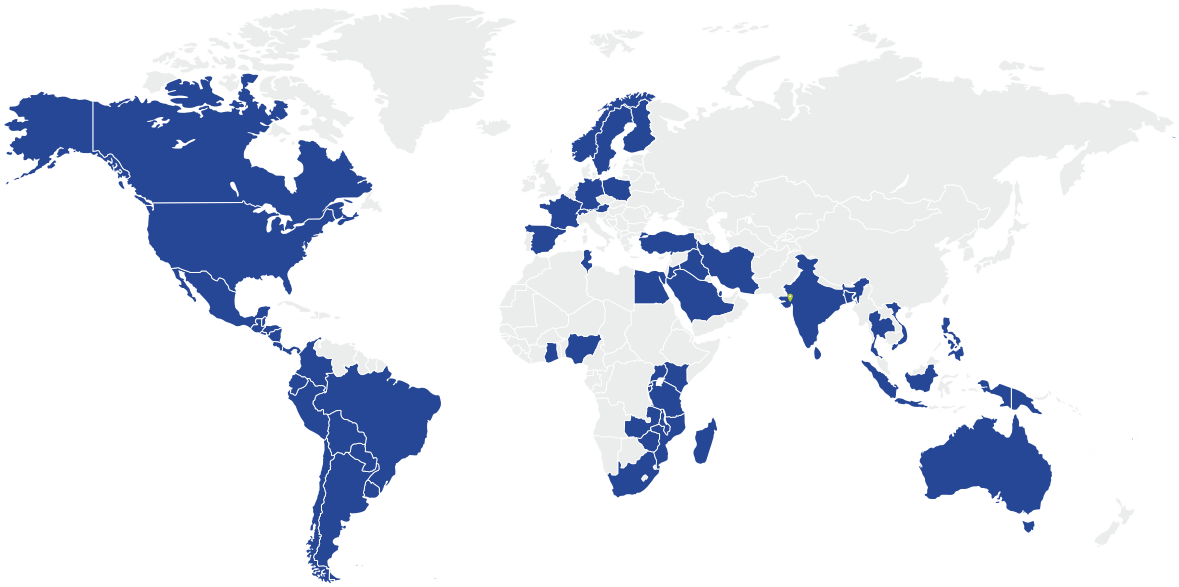
Beyond construction products, Zydex offers a diverse set of chemical technologies for the textile, agriculture and pavement industries. We were recently recognised as one of the 25 Most Innovative Companies in India by the Confederation of Indian Industry (CII).

Sustainable Green Chemistry

Zydex is deeply committed to sustainable chemistries that 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 chemical innovations that would mean a greener, purer and more resource renewable world is our passion. Our technologies have been recognized for their contribution to sustainability and globally accepted.

CII INDUSTRIAL INNOVATION AWARDS 2018 — *25 Most Innovative Companies of India*

GLOBAL PRESENCE



Version No. VN05/22/2023

Zydex® Innovating for Sustainability

Zydex House
61, Gotri-Sevasi Road,
Vadodara - 390 021.
Gujarat. INDIA.

+91 265 3312000
waterproof@zydexgroup.com
www.zydexgroup.com

SA 8000
ISO 9001:2015 &
ISO 14001:2015
CERTIFIED COMPANY