

High Performance Reactive & Flexible Bonding Agent for Concrete Cold Joints



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 34 kN/cm^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 34 kN/cm^2

Toll Free:
1-800-3000-7144

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

APPLICATION AREAS

RCC to PCC interface, RCC to RCC joints, RCC (Beam / Column) to Masonry joints, RCC / PCC Bricks to Coving joints, 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 apply on the construction joints of concrete, plaster or bricks. Construction Window after applying ColdBond: up 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 roughness)



ABOUT ZYDEX

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

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 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 chemical 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 globally accepted.



25 Most Innovative Companies of India

GLOBAL PRESENCE

