

TECHNOBUILD PCI 200

Penetrating Corrosion Inhibiting Admixture

DESCRIPTION

TECHNOBUILD PCI 200 is a liquid concrete admixture that protects steel reinforcing, carbon steel, galvanized steel and other metals embedded in concrete from corrosion induced by carbonation, chloride and atmospheric attack without changing the set time of most concrete mixes. PCI 200 protects by a proven penetrating corrosion inhibitor function. In addition, it contains a proven contact inhibitor. When incorporated into the concrete mix, Penetrating Corrosion Inhibitors (PCI) seeks out and forms a corrosion inhibiting protective layer on metals. When used with repair mortars and grouts, PCI 200 will migrate to undisturbed (old) concrete providing effective corrosion protection to rebar already in place. It forms a unimolecular protective layer on the surface of steel thereby inhibiting corrosion.

APPLICATIONS

PCI 200 is recommended for:

- All reinforced, precast, pre-stressed, post-tensioned or marine concrete structures
- Steel-reinforced concrete bridges, highways and streets exposed to corrosive environments (carbonation, salts and atmospheric attack)
- Parking decks, ramps and garages and concrete dock structures
- All reinforced marine concrete structures
- Concrete piers, piles, pillars, pipes and utility poles
- Restoration and repair of all reinforced concrete commercial and civil engineered structures
- Can be added either to the water or powder on-site for shotcreting applications
- Can be added into a manufacturer's repair mortar formulation to enhance its corrosion protection ability
- Can be used for potable water applications
- RCC structures exposed to corrosive environments
- Chlorinating plants, sewerage systems
- Building facades and balconies

ADVANTAGES

PCI 200 offers engineers, owners, contractors, DOTs and government agencies a time-proven corrosion inhibiting technology that will extend the life of all reinforced concrete structures.

- Protects against the harmful effects of corrosion in different types of concrete
- Required dosage is not affected by the chloride concentration
- Does not contain calcium nitrite or chromate
- Non-hazardous and non-toxic
- Safe and environmentally friendly
- Technology is lab and field proven worldwide
- Concentrated for cost effectiveness on all projects
- Protects both anodic and cathodic areas
- Will migrate to adjacent areas to protect metals

DIRECTIONS FOR USE

TECHNOBUILD PCI 200 is used as an admixture. It is added to the batch water during mixing of cement, sand and aggregates. It may be added to ready mix truck at the concrete plant or at a job site. It is compatible with other TECHNOBUILD admixtures but should be added separately.

TECHNICAL DETAILS

Appearance	Brown coloured liquid
pH	10 minimum
Specific Gravity	1.14 at 27 Degree C

DOSAGE

2 to 3 kgs per cubic meter of concrete

PACKING

20, 200 kgs HDPE drums.

STORAGE & SHELF LIFE

12 months when stored in a cool & dry place; away from direct sunlight, in original sealed packing.

HAZARDS IDENTIFICATION

Health hazards: No particular hazard known. If the product spills on to the skin and dries up, some irritation may occur.

FIRST AID MEASURES

- Skin contact: Immediately wash thoroughly with soap and water.
- Inhalation: Remove to open air. Seek medical attention.
- Contact with eyes: Immediately wash under running water with eyelids open for at least 15 minutes. Seek medical attention.
- Ingestion: Rinse mouth thoroughly and drink plenty of water. Seek medical attention.

ACCIDENTAL RELEASE MEASURES

Environment Care : Clean small spillages immediately with water. Contain large spillages with suitable absorbent materials. Dispose the waste water/absorbent material in accordance with local regulations.

QUALITY ASSURANCE

All products are manufactured under a Quality Management System for Design, Manufacturing and Selling of Construction Chemicals as per the standards of ISO 9001 : 2008

GUARANTEE / WARRANTY:

TECHNOKOTES products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with **TECHNOKOTES** written instructions and (b) in any application recommended by **TECHNOKOTES**, but which is proved to be defective, will be replaced free of charge. Any information provided by **TECHNOKOTES** in this document in relation to **TECHNOKOTES**'s goods or their use is given in good faith and is believed by **TECHNOKOTES** to be appropriate and reliable. However, the information is provided as a guide only, as the actual use and application will vary with application conditions which are beyond our control. **TECHNOKOTES** makes no representation, guarantee or warranty relating to the accuracy or reliability of the information. To the extent permitted by law, all warranties, expressed or implied are excluded.

TECHNICAL SERVICES

For more information concerning the working, application and compatibility of **TECHNOBUILD PCI 200** treatments with or without other products or technologies, contact the Technical Department of **TECHNOKOTES**.

TECHNOKOTES

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