

HI-PROGUARD CHLORIDE ABSORBER AND PROTECTING COATING FOR CONCRETE STRUCTURES



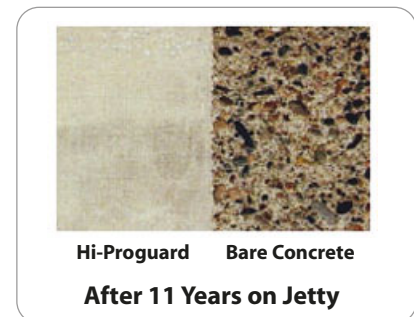
HI-PROGUARD is the longest proven track record coating for concrete structures to protect from corrosion, chemical attacks and carbonation in sever environments. Hi-Proguard provides the highest level of protection by special formulated pre-mixed powder polymer mortar containing super fine blast furnace slag.

Applications

- Coastal and marine structures subject to chloride corrosion.
- Sewage treatment plants.
- Tunnel concrete walls to prevent carbonation.
- Dams, retaining walls, river embankment, and road subject to frost damages.
- All concrete structures requiring an addition durability.

Characteristics

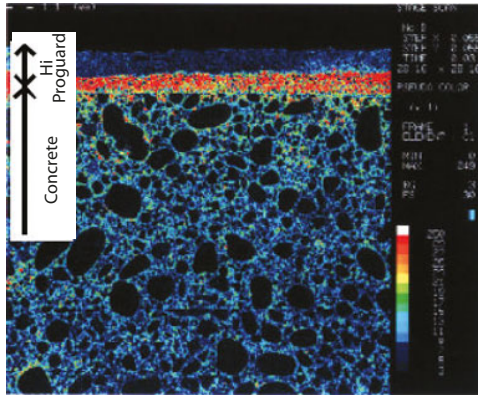
- More durable than any other types of coating including mortar and epoxy coating.
- Highest level of protection for chloride corrosion.
- High resistance to chemical attacks.
- High resistance to water permeation (< 1.2%).
- Best protection for freeze-thaw damages
- Carbonation control capability.
- Environmental safe because of no VOC,.
- Easy preparation add water
- Easy application due to the low viscosity. Add water and apply by spraying, brushing or rollers.
- 20 kg bag covers 6 m² of concrete surface at 2 mm thickness.



Physical Characteristics at 20° C

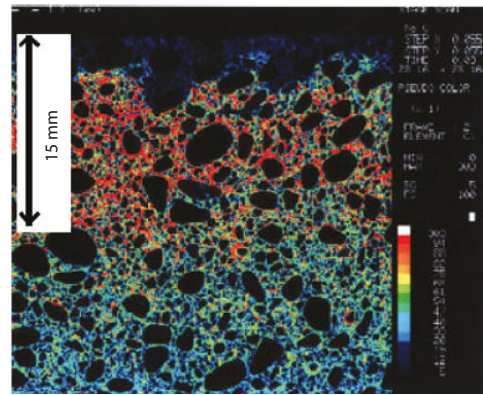
Item	No. of days	Strength (N/mm ²)
Compressive Strength	7 days	39.3
	28 days	47.6
Flexural Strength	7 days	7.4
	28 days	10.3
Bond Strength	28 days	2.6

HI-PROGUARD CHLORIDE ABSORBER AND PROTECTING COATING FOR CONCRETE STRUCTURES



Hi-Proguard Applied Concrete

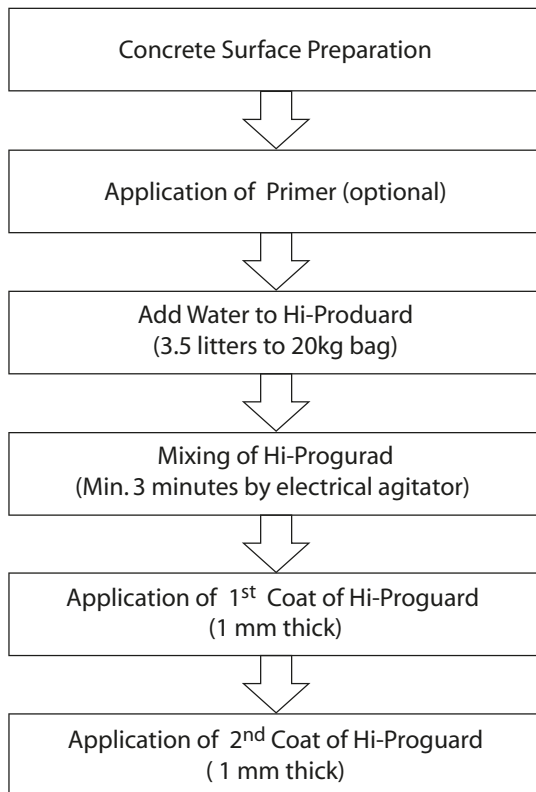
Note: Red dots show chlorides trapped inside Hi-Proguard to stop the penetration.



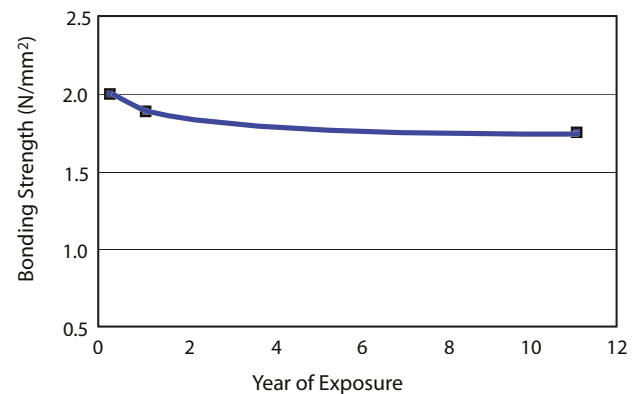
No Hi-Proguard

Note: Red dots show chlorides penetration in concrete after 11 years exposure.

Application Procedures



Bonding Strength to Concrete with Time



Effectiveness to Carbonation to Concrete Underneath

