

IPN Coating for the Protection of Reinforced Concrete Structures

Technology in Brief

IPN protective system is based on the synthesis of epoxy cardanol under vacuum. Cardanol is a phenol obtained from fractional distillation of CNSL. The condensation of epoxy resin with cardanol is carried out in a reaction kettle at elevated temperature under inert atmosphere. Output is checked for alkalinity and then discharged from the vessel and collected room temperature. It enhances the service life of the structure; this innovative material brings numerous benefits and advancements that positively influence various aspects our lives.

Salient Features/Advantages

- Low permeability.
- Sufficient elongation.
- Improved flexibility.
- High bond strength with concrete.
- Excellent chemical resistance.
- Better self-life, cost-effective.



Corrosion Protection of Concrete in Aggressive Environments



Corrosion Protection of Concrete in Aggressive Environment

End Product(s)	IPN Coating
License/Commercialization	M/s Krishna Conchem Products Pvt. Ltd., Mumbai
Setup - Equipment required	Reaction Kettle, Mixer, Blender and Other Lab Equipment
Awards/Recognitions	CBRI Foundation Day Award, 2011