



Structural Crack Repair By Epoxy Resin Injection

It is generally agreed that it is the nature of concrete structures to crack to a minor or major degree. Cracking indicates that the structure has been forced to absorb the energy of some form of stress. Concrete cracking is commonly caused by:

- Shrinkage during cure, before the concrete has developed its full strength..
- Mechanical overload, either static or dynamic.
- Temperature changes in a structure where no provision was made for movement or controlled cracking.
- Base or foundation settlement.

When a concrete structure has cracked for any of these basic reasons, it does not necessarily mean that the structure has failed. On the contrary, any cracked concrete structure can be repaired effectively and most often permanently, provided the structure has not been wholly deformed and the original cause of cracking has stopped.

With a track record in the tens of kilometers of successfully injected cracks Hammersmith are able to provide tried and tested solutions to structural cracking problems, ensuring structural integrity and protection from water ingress leading to reinforcement corrosion.

**"SPECIALIST SOLUTIONS
FOR THE
CONSTRUCTION INDUSTRY"**

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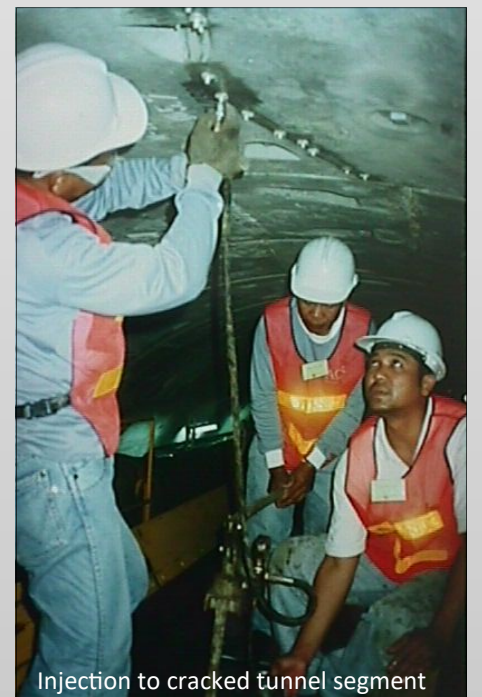
Application of surface seal



Fixing injection nipples



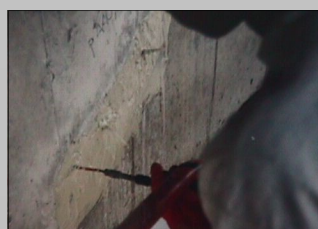
Surface seal prior to epoxy injection



Injection to cracked tunnel segment



Injection to pre-cast bridge units



Epoxy
Resin
Injection

