

Hanson Protect

Hanson Protect extends the life of structures and buildings by protecting the reinforcement within the concrete with a special corrosion inhibitor.

REGEN
✓INSIDE

Hanson Protect

Reinforcement within concrete can, over time, deteriorate due to corrosion. As corrosion progresses the steel reinforcement not only weakens but expands. These expansion forces cause the concrete to crack and spall and subsequently lose its structural integrity.

Hanson Protect incorporates an integral active agent that coats the steel preventing corrosion. It can be used as an enhancement to conventional cathodic protection systems or as a stand-alone product to offer greater lifetime design.

Main factors influencing reinforcement corrosion

- Chloride penetration
- Moisture absorption
- Carbonation
- Incorrect cover to reinforcement
- Structural damage

Where to use it

- Tidal zones/coastal construction
- Splash zones on highway structures
- Bridge decks
- External supporting columns
- External, heavily reinforced concrete
- Internal areas of high moisture/humidity
- Reservoirs/dams
- Water treatment works
- Biomass plants
- Salt storage areas
- Aggressive chemical environments

Benefits

- Significantly reduced costs over sacrificial cathodic protection systems
- Significantly reduced costs over integral electrical monitoring cathodic protection systems
- No additional associated labour or installation issues
- Increased structural lifespan
- Reduced maintenance and repair costs
- Backed by full BBA certification
- Available from all Hanson Concrete plants

Benefits subject to good concreting practice (placement, finishing and curing).

Sustainable solution

Hanson concrete can incorporate a proportion of Hanson Regen, a cement replacement material that generates a much lower level of embodied CO₂ emissions than ordinary cement, minimising environmental impact. Recycled aggregates can also be incorporated subject to local availability and mix design.



Queen Elizabeth II Bridge, Dartford.

To find out more, contact your regional sales office:

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