















THE PROBLEMS

Whether constructed in timber, stone, brickwork or concrete, a building undergoes changes over the course of time. Foreva Concrete Repairs offers proven solutions for the repair, reinforcement and protection of these structures.

■AREAS OF APPLICATION

• Any building with stability problems or needing reinforcement.

■PROBLEMS IDENTIFIED

- Cracks, excessive deformation, partial destruction or breaking of elements
- Timber: rot, peeling, splitting, ring shake, cavities, missing sections, broken joints
- Glued-laminated timber: rot, peeling, undersized sections
- Masonry: repointing needed, dislocation, instability, missing mortar
- Reinforced concrete: corrosion of reinforcements, flaking, spalling, leaching, peeling

■NATURAL CAUSES

- Aging of materials, chemical attack, freeze/thaw cycles
- Timber: excessive humidity, decay caused by insects or fungi, sun damage (UV)
- Masonry: shifts in soil structure, inadequate stress distribution, leaching of masonry
- Concrete: chlorination, carbonation, water infiltration

■STRUCTURAL CAUSES

- Change of use, changes in regulations
- Design error, poor design or implementation
- Material fatigue
- Shifts in masonry structure

■ACCIDENTAL CAUSES

- Variable loads
- Ground movements
- Fire
- Earth tremors

With extensive experience and innovative methods, Foreva delivers turnkey solutions for the lasting rehabilitation of structures.













OUR SOLUTIONS

Foreva[®] solutions enable rehabilitation works to be carried out in line with industry standards and good practice while respecting the environment.

■ FEASIBILITY STUDY

■ EXECUTION METHODS

■ Works

Repair and reinforcement of wooden structures

- Repair of cracked or broken sections using a seaming technique (Foreva® Wood Reconnect)
- Restoration of peeling glued-laminated timber using a remeshing technique (Foreva® Wood Glulam)
- Repair of timber frame supports using scarf joints (Foreva® Wood Scarf)
- Repair of structural beams using tying techniques (Foreva® Wood Splint)
- Restructuring timber framed walls and structural members (Foreva® Wood Frame)
- Beam reinforcement by connection of a polymer concrete compression flange (Foreva® Wood Inertia SUP)
- Beam reinforcement by connection of a mounted timber foundation plate (**Foreva® Wood Inertia INF**)
- Reinforcement of zones subject to tensile forces using bonded carbon fibre composite (Foreva® Wood Fabric)
- Increasing the bearing capacity of a floor by laying a self supporting floor plate (Foreva® Wood Floor)
- Additional prestressing (Freyssinet System)

Repair and reinforcement of brickwork and stone buildings

- Wall tying using composite glass or carbon fibre rods (Foreva® Stone RFG and Foreva® Stone RFC)
- Repointing masonry
- Surface treatment, remineralisation
- Bracing masonry arches with composite reinforcement
- Restoring the thrust lines in arches (Freyssinet Flat Jack)
- Surface prestressing (Freyssinet System)
- Underpinning work

Repair and reinforcement of concrete structures

- Realkalisation of coatings by electrochemical repair (**Foreva® PH***)
- Chloride extraction work on coatings by electrochemical repair (Foreva® Cl⁻)
- Crack grouting (Foreva® TF Inject)
- Surface treatment

Our specialist teams are on hand to help you identify the Foreva® solution to meet your requirements.



info@forevaconcreterepairs.co.uk www.forevaconcreterepairs.co.uk





