

3X ENGINEERING

COMPOSITE SOLUTION FOR STRUCTURAL REPAIR



Any structure materials

HLCCCO

Any structure designs



Any structure sizes



Any weather conditions



Any environments



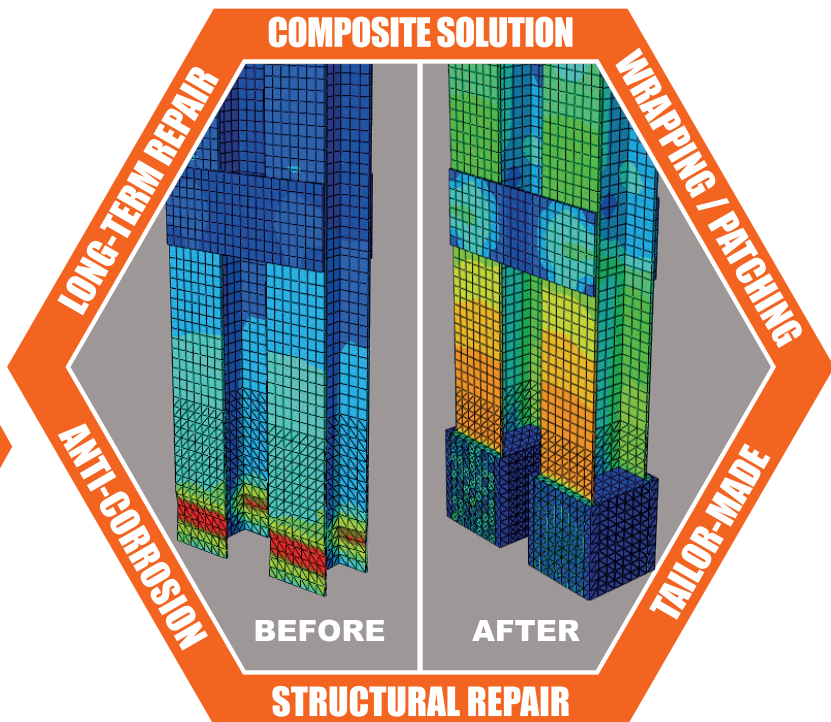
Any industries

REINFORCEKIT® STRUCTURE

Finite Element Analysis (F.E.A) design



STRUCTURAL



INNOVATIVE REPAIR SOLUTIONS FOR YOUR INSTALLATIONS

REINFORCEKIT® STRUCTURE is a tailor-made composite repair system to renovate any kind of corroded structure and restore original integrity, making it even stronger than the original one.

Depending on the structure design to be reinforced, the solution will be wrapping or patching. This technology is a combination of fiber tape (Kevlar®, carbon or glass fiber) and bi-component epoxy resin. Sometimes metal inserts can be added to specific designs to distribute the efforts. This product is resistant to any climatic conditions and temperature variations. A protective version, made of a combination of several high-performance coatings, is also available to prevent corrosion issues.

REINFORCEKIT® STRUCTURE APPLICATION




OIL AND GAS
(conductor supported platforms, caissons, splash zones, pressure vessels, tanks ...)




CONSTRUCTION
(bridges, shed structures, beams, columns, roof, walls, decks, sheet piles, jetty piles ...)

Suitable for many others industries ...

REINFORCEMENT or PROTECTION



ENERGY
(windfarms, electrical pylons ...)



TRANSPORTATION
(catenary supports, beams, poles ...)

REINFORCEKIT® STRUCTURE MAIN FEATURES & BENEFITS

- Repair solution for corroded structures
- Suitable for steel, concrete, composite and many others material structures
- Protection against impact, UV and climatic aggression
- Versatile solution adaptable to any industries/sectors, any structure designs (even complex geometries), any environments (onshore, offshore including underwater) and any structure sizes (no limitation)
- Live repair, no impact on production or traffic
- Tailor-made for your structure design using Finite Element Analysis
- Compliant with international standards: ASME PCC-2, ISO 24817, ABS rules, DNV guidances... (steel). ACI 440, AFGC guidelines,... (concrete)
- Long-term repair (20 years minimum)
- Cost-effective (structure replacement avoided)
- Installation by trained and certified applicators



Focus on railway sector

Specific solutions were co-developed and are commonly used by the French National Railway Company to reinforce their catenary supports. **Since 2010**, thousands of structures have been protected and repaired successfully thanks to **DKIT®** and **REINFORCEKIT® BEAM** patented products.

REINFORCEKIT® STRUCTURE - CASE STUDIES



Non-exhaustive list



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