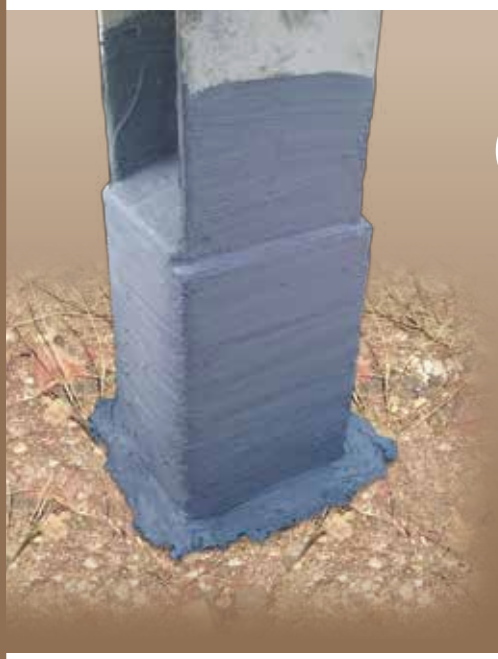
REINFORCEKiT® BEAM



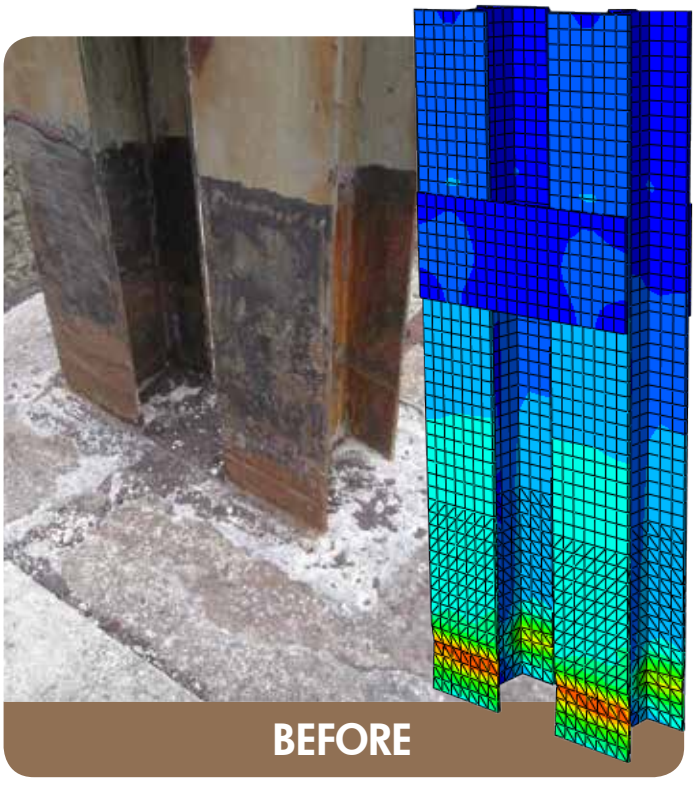
COMPOSITE REPAIR FOR DAMAGED BEAM

No limit of size

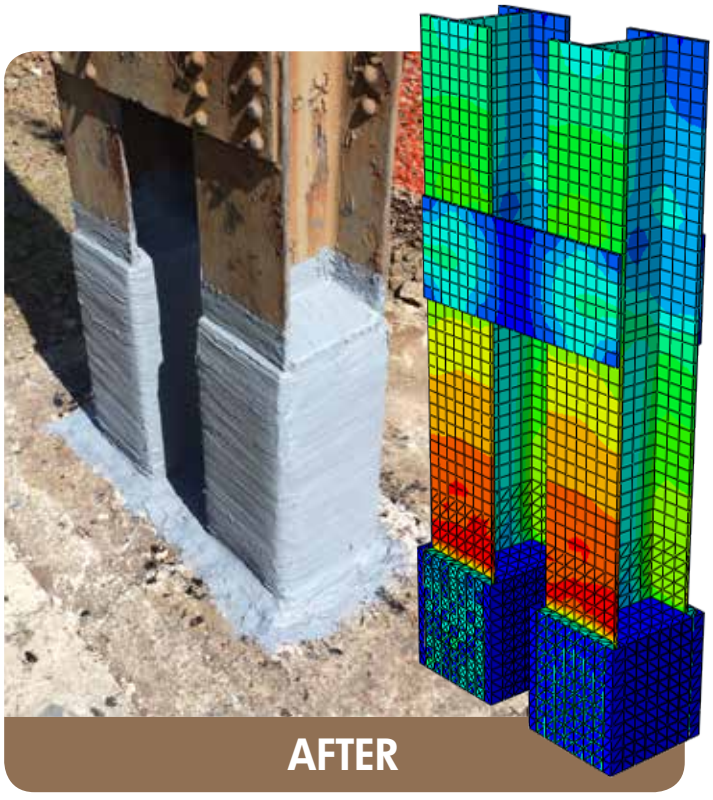
Various structure designs

Onshore

REINFORCEKiT® BEAM design is performed using Finite Element Simulation



BEFORE



AFTER

SNCF & PATENTED 3X ENGINEERING

COMPOSITE REPAIR SPECIALIST

CERTIFIED ISO 9001 CERTIFIED

REINFORCEKiT® BEAM is a product recommended to reinforce structures suffering from corrosion. Designed for lasting 20 years minimum, this product can renovate a structure having lost up to 80% of its initial thickness.

REINFORCEKiT® BEAM is made of very high performance materials. Metal inserts are integrated on the base of the structure by cold welding to give back the original mechanical resistance. Then the structure is wrapped with Kevlar® tape and 3X epoxy resin and recovered with specific anti-UV & impact protective coating.

REINFORCEKiT® BEAM HISTORY

Initially co-developed in partnership with SNCF (French National Railway Company) for Railway Industry to reinforce catenary supports, REINFORCEKiT® BEAM is suitable for all structure designs.

Since 2011 and after 2 years of testing (decohesion and mechanical tests ...), over a thousand of supports have been renovated successfully thanks to this original product.

USES

- Repair and reinforce structures
- Up to 80% of corrosion
- Restore structure integrity

APPLICATIONS

- Suitable for all structure designs (beams, poles ...)
- Structure highly corroded (up to 80%)
- All beam sizes and designs

BENEFITS

- Installation without stopping production or traffic
- Long-term repair (20 years minimum)
- Cost-effective installation
- Fast and easy implementation

REINFORCEKiT® BEAM IMPLEMENTATION STEPS

Surface preparation Sa2.5

Metal inserts preparation

Metal inserts application

Kevlar® and epoxy resin wrap

Impacts & UV protection

3X ENGINEERING : 9, avenue Albert 2 - 98 000 MONACO
Phone : + 377 92 05 79 81 - Fax : + 377 92 05 72 71 - www.3xengineering.com - info@3xeng.com

REINFORCEKIT BEAM FP - 05/2016 - ENG