



## > Waterproofing Systems and Technical Solutions



### > Motorway Overpass - Champtocé sur-Loire (49)

Structural reinforcement by application of LANKOSTRUCTURE® CARBOTEX® fabric

**Problem** : As part of upgrade work (guard rails, cornices, water drainage, surfacing, etc.) on the structure, the Client also wished to treat fine cracks in the beams at the stringers by reinforcing the shear strength of the bridge deck. To remedy the problem, Vinci Autoroute decided to reinforce the structure by installing carbon reinforcements.

**PAREXLANKO solutions** : The decision was made to use a composite reinforcement rather than a sprayed concrete solution with metal reinforcements. The composite reinforcement was deemed less bulky and also avoided additional load and was quicker to implement.

Once the scaffolding and protection were in place, work preparing the substrates could begin. The beams were stripped by sanding to make the concrete suitable to apply the reinforcements. The concrete was repaired using 770 LANKOREP FIN RAPIDE and 731 LANKOREP STRUCTURE hydraulic mortars, cracks were injected with 727 LANKOKIT LV Basic Pack and appearance flaws were repaired with 720 LANKOREP EPOXY.

After this key phase preparing the substrates and after training all the journeymen from the GTM Travaux Spéciaux company in applying the LANKOSTRUCTURE® CARBOTEX® composite reinforcement, work to reinforce the structure began.

#### APPLIED PRODUCTS



- LANKOSTRUCTURE®
- CARBOTEX®

#### ALSO

- 720 LANKO REP EPOXY
- 727 LANKO KIT LV BASIC PACK
- 731 LANKO REP STRUCTURE
- 770 LANKO REP FIN RAPIDE

#### > LOCATION

Champtocé sur-Loire – France

#### > CUSTOMER

VINCI Autoroute

#### > MARKET SEGMENT

Civil Engineering

#### > SUBSEGMENT FUNCTION

Structural Reinforcement

#### > YEAR

2014

**BRAND**

**PAREXLANKO**

**PAREX**  
Building expertise, together