

The Tagus bridge (1995)

- ① **Project : Huge set of structures on the Tagus river for the construction of an unbroken link of 12.3 km between Lisbon and the left bank of the Tagus river**
 - Northern viaduct : 488 m
 - Viaduct of the 1998 Exhibition : 671 m
 - Main cable-stayed bridge : 830 m
 - Central viaduct : 6 531 m
 - Southern Viaduct : 3 825 m



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- ⌚ **The originality of this construction consists in the way of proportioning superstructures and substructures able to resist to efforts four times higher than the one usually obtained for the ground construction in seismic areas.**
- ⌚ **Construction : 8 firms, managed by Campenon Bernard SGE (construction manager), gathered together within Novaponte. 670 000 m³ of concrete (classes B40, B45, B50) and a salt water setting type cement.**
- ⌚ **Admixtures :**
 - **Chrysoplast CER** (plasticiser), for the maintenance of workability from three to five hours and to allow pumping for more than 500 m

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- ω **Project : Hudge set of structures**
- ω **Specifications :**
 - Constraint of durability
(concrete shelf life : at least 120 years)



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ω Used admixtures :

- Use of an adapted formulation of the **Chrysofluid GT** allowing an optimum reduction of the water / cement ratio, and therefore a very low porosity

