

Marseille petroleum barge (1994-1995)

- ω **Project : ELF AQUITAINE** fabricated a 220-meter-long, 46-meter-wide, and 16-meter-high concrete barge intended to be anchored in the open sea off Gabon for the transfer of hydrocarbons.



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⌚ **Concrete used :**

- A high performance concrete of good quality was formulated.

⌚ **Admixtures :**

- 350 t of admixtures
- **Chrysofluid THP** (superplasticizer) allowing high water reductions and giving to this dosage an excellent workability, dosed at 2,4 % by weight of cement
- **Chrysotard CE** (set retarder)

⌚ **Resistances achieved :**

- 37,7 MPa at 24 hours ; 68 MPa at 7 days ;
84 MPa at 28 days
 - ⌚ **With the concrete density obtained an excellent resistance to sea water and to hydrocarbons was achieved**