

# PROJECT PROFILE



**Project:** Repair of reinforced concrete coal-bunkers of the Romanian Railways, Romania

**Designer:** Gemite Romania Ltd.

**Contractor:** A local contractor in the town of Halmeu

**Gemite products:** **Gem-Crete HDO (heavy duty overlay)**, **Spray-Con WS ST** and **Fibre-Prime**, **Adi-Con CSF (F) – micro-silica admixture for concrete**

**Objective:** repairs, waterproofing and protection against abrasion for existing reinforced concrete bunkers used for the storage and supply of coal for the steam locomotives of the Romanian State Railways. This complex repair utilised **Fibre-Prime** (see below) to protect corroding exposed reinforcing steel of the bunkers. The larger volume reprofiling was achieved by application of **Spray-Con WS ST** (wet shotcrete) process material, (applied by hand in this case) and by **Adi-Con CSF(R)** micro-silica enhanced concrete. The entire interior surface of the bunkers was coated with **Gem-Crete HDO** overlay. The key advantages of **Gem-Crete HDO** are in its high impact and abrasion resistance as well as superior freeze/thaw durability, all required in this project.



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