



INNOVATIVE. FIRE. SYSTEMS

PASSIVE. FIRE. PROTECTION

L'EPINE TUNNEL (South Tube)



FIRE PROTECTION – REINFORCED CONCRETE BOSSING and VENTILATION PLANT

After renovating the North tube in 2005, the contract owner, **AREA**, assisted by the prime contractor, **INGEROP**, started renovation of the South tube in spring 2006. Ventilation plant fire resistance and reinforced concrete bossing newly installed, cable trough shafts and lead-in shafts have been constructed on levels N1 or N3. Chantiers modernes-Eiffage commissioned us to provide thermal protection by spraying 2000 m² of concrete structures with FIRE BARRIER 135 mortar. The contract owner, **AREA**, commissioned us to provide thermal protection by spraying 900 smoke control flaps or fresh air intakes and more than 3000 ml of fire-resistant seals.

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FIRE BARRIER 135 was installed by spraying under the reinforced concrete bossing; under the ventilation plant. Prefabricated plates for the shafts. Fire-resistant seals between the concrete slabs of the ventilation duct and all cabletrough closures were treated with a BATOBOARD 550 complex coated with 3 cm of Fire Barrier 135, guaranteeing N3 fire resistance. This work was completed in June and July 2006.



Fire barrier 135 sprayed
28 mm thick to guarantee
N3 protection level

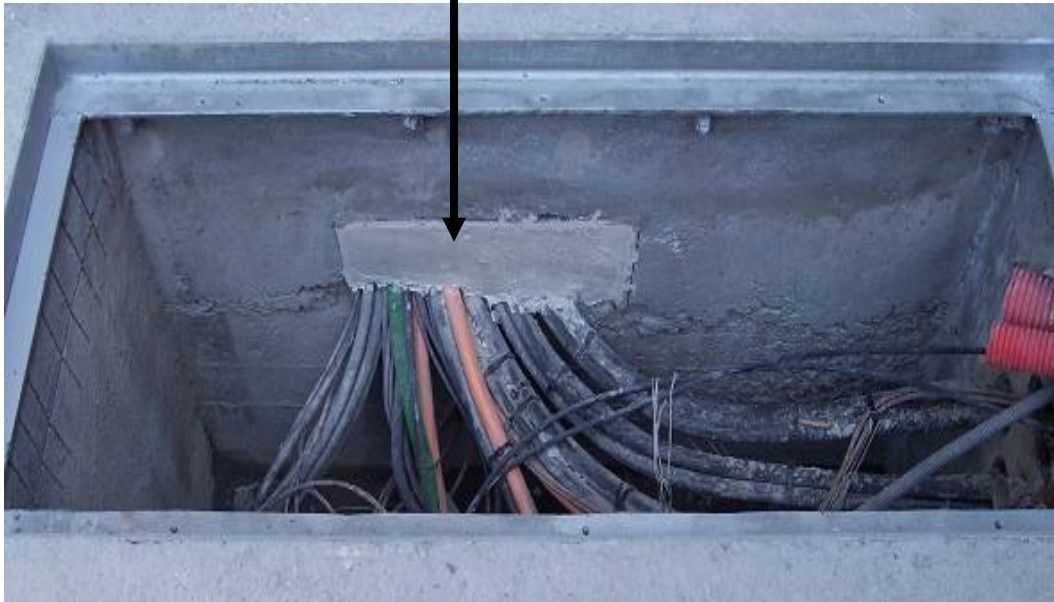
Treatment with fire barrier
135 28 mm thick
guaranteeing N3 protection
at 60 degrees maximum
temperature inside the
refuge after two hours





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CABLETROUGH SHAFT CLOSURES



PLATES COVERING LEAD-IN SHAFTS
with 75 mm of FIRE BARRIER 135

