

Project Profile - Civil Engineering & Infrastructure



PROJECT

**Valle d'Aosta Bridges, Milan-Turin
Autostrada, Italy**

SUMMARY

Protection against chloride ingress
from de-icing salts and freeze/thaw
cycling on Alpine bridges

PRODUCTS

Cementitious Coating 851

CLIENT

Italian Highways Authority

BACKGROUND ►

Motorway bridges in this Alpine region are exposed every winter to sub-zero temperatures and heavy snow, needing liberal use of de-icing salts to keep them open.

Such salts, combined with frequent freeze-thaw cycling, impose a heavy burden on reinforced concrete structures and the bridges were starting to show signs of deterioration, which needed to be arrested.

THE SOLUTION ►

Cementitious Coating 851 was selected by the Highways Authority as the ultimate in protective coatings, not only waterproofing to provide resistance to cycles of freezing and thawing, but also forming an exceptional barrier to both chlorides and carbon dioxide. **851** is a proven defence against carbonation and has exceptional resistance to water penetration - amazingly 2mm coating offers equivalent water permeability to approximately 1 metre of structural quality concrete. It is capable of being applied at temperatures as low as 5°C, and it retains a degree of flexibility to take up the demands of thermal movement without cracking or loss of adhesion.



FM 41091
EMS 597350
OHS 597351

Quality
Environmental
Health & Safety

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