

# Case Study

Toproc CR

## Rock Salt Storage Facility

Client:	Stockton Borough Council
Contractor:	WS Atkins ENG Contractor Mowcar Const
Location:	Copen Lane, Billingham, Teeside
Value of project:	£TBC
Duration:	12 weeks
Completion:	June 2008

### Project Brief

Apart from two major trunk roads in the area, the A19 and the A66 which are maintained by the Highways Agency, Stockton Borough Council is responsible for maintaining all of the region's roads, including gritting them in the winter to keep delays and accidents to a minimum.





## Rock Salt Storage Facility

### Tarmac's Solution

As with many road maintenance programmes, the council uses rock salt during the winter months to treat icy, hazardous roads. The large amount of rock salt required to treat the 225 miles of road covered by the gritters presented the problem of safe storage. As rock salt contains aggressive chlorides, it was vital that suitable products, capable of chemical resistance, were used within the store.

In addition, it was also imperative that the floor was jointless as the high chemical content of rock salt makes it likely to penetrate any floor joints leading to corrosion of the steel. Furthermore, large load shovels are used to distribute the rock salt, which can catch on joints used in the construction of the storage facility floor.

To combat these issues, steel fibres were mixed with Tarmac's Toproc CR at the concrete plant to provide a completely jointless floor covering which used a total of 140 cubic metres of Toproc CR product.

### System Performance

Tarmac Toproc CR is a Microsilica concrete specially formulated from selected cements and chemical resisting aggregates. It is much more durable and exhibits less wear in high abrasive environments than traditional concrete and therefore proved to be the ideal solution for the council's rock salt storage facility.

### Contact Details

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