



BANVERKET

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Norra banregionen
Bansystem Luleå

BROMÅLNING MED ISOTROL *Painting of railwaybridge with ISOTROL*

Banverket in Luleå invited tenders for repainting of two riveted truss bridges (2100 m²) with paintsystem in compliance with the requirements in BRO 88.

The tenders (700 kr/m²) exceeded highly the calculation made by us. The bridges were built in the year 1910 and they were meant to be replaced within 10-20 years. We therefore decided to have a cheap corrosion protective coating applied on the bridges.

Through Renovator AB, a paintcontractor from Västerås, we were informed of ISOTROL and that the cost of repainting with ISOTROL only would be one third of the cost according to the tenders. The upgrading/repainting comprised of cleaning, light blasting, priming with ISOTROL PRIMER, treatment with , an intermediate coat by the name ISOGUARD, and topcoated with ISOTROL FINISH. In total 150 micrometer.

The repainting was carried out in late summer 1989, with high relative humidity because of intensive raining. At the end of the guarantee time in 1994 , only a slight corrosion in some crevices was noticed. No other changes has been noticed on the bridge.

Five years later in 1999 the bridge was inspected again. No sign of corrosion was noticed at all. It was then considered that for the next 5 – 10 years ahead there is no need of repainting the bridge.

Banverket has repainted big riveted truss railway bridges in Haparanda and Forsmo during 1994. The paintsystem used was in compliance with BRO 94. At the end of the guarantee time in 1999 , occurrence of slight crevice corrosion was noticed on these bridges. The crevice corrosion noticed was, at least, to the same extent as on the bridges in Luleå painted with the ISOTROL-system.

The results from the bridges in Luleå, Haparanda and Forsmo show that riveted truss bridges or other steel constructions, for which, for one or another reason, proper degree of cleaning required for coating with epoxy or other highperforming is difficult to be obtained, the use of a penetrating and surface tolerant paintsystem as the ISOTROL-system is advantageous. Another advantage is that repairing or maintenance painting could be done by your own personell, with no requirement of epoxy competence.

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