



## Waterbox Lining

### PROBLEM:

*In 1993, Israel Electric Corporation was concerned about the failing rubber lining and subsequent pitting and corrosion throughout the circulating water systems especially in their salt water cooled power plants. Specifically, the debris filters and waterboxes all showed varying degrees of rubber lining failure. They decided to repair the rubber lining where possible and reline where necessary.*

### SOLUTION:

**DUROMAR, INC.** through our Distributor, LAOR Engineering, was contacted to supply products to both repair failed rubber lining and reline the most severely damaged areas. Where small faults were present, the failed rubber was removed. The area from which the rubber was removed was grit blasted and the rubber lining roughened. The metal/rubber joint area was filled with **DUROMAR SAR** and sloped both onto the rubber and the exposed metal surface. The metal and **SAR** was then topcoated with two coats of **DUROMAR EAC**.

For areas of severe failure, the remaining rubber was removed and the surface grit was blasted and, any deep pits were filled with **SAR**. The total surface was then lined with two coats of **EAC** as above.

### RESULTS:

The lining and repair project was completed on schedule, and the unit was returned to service with no evidence of problems.

### CURRENT STATUS:

The initial unit continues to have minor rubber failures, but these are quickly repaired using **DUROMAR SAR**. No damage to the **DUROMAR** repaired areas have occurred.

Because of the success of this project, similar repairs have been done at a second power plant with the addition of a thick film (180 mil) epoxy cladding on the tubesheets face for complete long term protection.

### COMMENTS:

As with all **DUROMAR** products, the **SAR** and **EAC** are 100% solids, with *Zero VOC*. These Epoxy systems contain no carcinogens or heavy metals. This makes applications easy and safe for both the applicators and the environment. This process has also been successfully used to line Cast Iron Waterboxes with similar excellent results.



QUALITY SYSTEM  
REGISTERED TO  
ISO 9001:2000



NSF-ISR's Registration Program  
is Accredited by Member of the  
IAF MLA for QMS.