

ZINGA APPLICATION ON HIGH-TENSION TOWER

Present report relates the assignment to the “**Departamento de Produção São Paulo (DRL.O) through the Division of Electromechanical Maintenance (DMES.O)** of an experimental application of ZINGA on a highly corroded structure.

The company HAJATO – Jateamento e Pintura Industriais Ltda. was appointed by DMES.O to execute the application.

A structure with easy access was chosen in an industrial environment with a high degree of pollution: **the tower 205 of LT Ibiuna – Tijuco Preto 1&2 in the region of Serra do Mar, near to the Chemical Industry Elclor, in Rio Grande da Serra.**

- The execution took place in February 1999 and lasted 10 days to complete the treatment.
- Considering the aggressive area, 2 layers were applied with a dry thickness of 40µm giving an interval of 2 hours.
- The surface was manually prepared by metal brush, sand-paper and by degreasing with terpentine.
- For a surface of 332,31m², 31 gallons of 5kg were used: 5kg covering 11m².
- 1 liter of Zingasolv was used to clean brushes and to dilute Zinga.
- Zinga was applied in an ambient condition of high humidity as shown in the table.
- Adhesion tests gave a positive result of 5A.

Conclusion

ZINGA is a system with easy application not requiring a rigorous cleaning, for which humid ambience doesn't interfere in the accomplishment. One year after the application the installation (Tower 205) remains in a perfection condition. Only 2 highly corroded pieces that intentionally weren't submitted to a surface preparation, are showing a few spots of oxidation: this was in order to verify in how far the cleaning would influence the behaviour of the product.