

**THE IMPROVEMENT OF THE QUALITY OF THE BITUMINIOUS EMULSIONS
BY THE ADDITION OF A COPOLYMER OF STYRENE-BUTADIENE LATEX**

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Abstract

The paper refers to the production and control of elastomer bituminous emulsions by the addition of a co-polymer of styrene-butadiene latex. A comparison is made between conventional bituminous emulsion of Greek specifications and modified bituminous emulsion. The control tests refer to bitumen residue from the emulsion and are as follows:

- * penetration test
- * softening point (R&B)
- * Fraas test
- * recovery by modified ductility test
- * cohesion and adhesion aggregate test

The results prove the great improvement of the properties of the conventional bitumen. The final conclusions are its better behaviour at high or low temperatures, its better adhesion with aggregates and its improvement to aging resistance.