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COLD RECYCLED ASPHALT MIXTURES DESIGN

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ABSTRACT
The design procedure of the cold recycled mixtures, usually based on the effect of water on compressive strength, presents important differences in relation to the construction process, especially in the obtained densities.

On the other hand, the compressive standard test is not the best suited to reveal the cohesion provided by the emulsion. The maximum compressive strength is usually obtained with the minimum percentage of tested emulsion, selecting the proportioning which allows for a retained strength obtained at 75%.

This is the reason why the indirect tensile test is being used, under dry and wet conditions, in the *Laboratorio de Caminos* at the *Universidad Politécnica de Cataluña*, which allows us to evaluate the binder's effect in order to improve the cohesion of the material used and its resistance to water's action. The specimens are produced with a density similar to the one obtained during works.

KEY WORDS: In-situ Recycling, Design Mix, Indirect Tension.