



PERMEABILITY MEASUREMENTS - NEW CONTRIBUTION TO FLOCCULANTS SELECTION IN NON-ASBESTOS FIBRE CEMENT HATSCHEK PROCESS.

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Abstract.

Research works have been done both to study and to evaluate the stability and interaction of different flocculants within the slurry in the fibre cement Hatschek process but so far, these studies were restricted to vat environment and could not made any correlation to final products.

In tropical countries, seepage in corrugated sheets can occur as consequence of improper flocculants selection that influence on the characteristics of flocks formed during filtration in vats and processing stability. Proper flocculants selection not only helps to solve this problem but contributes to build up a suitable microstructure which is responsible for the final properties of the composite.

In this paper, a new technique of measuring permeability is presented as a tool to characterize and quantify permeability properties in fibre cement composites. It showed mainly useful to characterize and select the performance of flocculants with different molecular weight and ionic charges in industrial scale.