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### Paper Title 1: Effect of Limestone Filler and Waste Ceramic Tile Aggregates on the Workability of Self-Compacting Concrete

**Abstract:** During the period between 1990 to 2017, self-compacting concrete (SCC) has been developed to reduce workmanship errors and improve the durability of the concrete. Despite many benefits of the self-compacting concrete, its cost still remains high, due to the high proportion of the cement required. To mitigate this issue many researchers urged the use of mineral additions as partial replacement of the cement. On the other hand, the management of the solid waste is a global concern in every country nowadays. The fact that there currently lacks a universally acceptable strategy for recycling ceramic waste is significant. The physical and chemical properties of the waste ceramic make it suitable for the concrete production. This study assessed the effect of partial replacement of the cement the limestone filler (LF) at 0%, 10%, 15%, 20%, and 25% and replacement of the natural coarse aggregate with the waste ceramic tiles aggregates (WCTA) at 25%, 50%, 75%, and 100% within the validity range of self-compacting concrete properties at the fresh state. Sika Visocrete 3088 was used to assess the saturation dosage of the superplasticizer. The flowability, viscosity, passing ability and resistance to segregation of self-compacting concrete containing the limestone filler and waste ceramic tile aggregates were assessed. The results showed that the saturation dosage of the superplasticizer Sika Visocrete 3088 is 0.07% in solid content. Furthermore, high proportion of waste ceramic tile aggregates (75%) with optimum percentage of limestone filler (20%) satisfy the properties of SCC in the fresh state.

**Keywords:** Limestone Filler, Self-Compacting Concrete, Superplasticizer, Waste Ceramic Tile Aggregates, Workability.

**References:**

### Paper Title 2: Evaluation of Seismic Behavior of RC Frame Retrofitted with Different Configuration of FRP

**Abstract:** For the requirement/need of retrofitting, in recent years, Fiber Reinforced Polymers (FRP) become engineer’s choice to increase strength and ductility of reinforced concrete (RC) beams, columns and beam-column joints because of its’ light weight, higher strength, and ease of applications to the existing members. To attain better performance, better configuration of retrofitting should be selected. In this paper, nonlinear static pushover analysis has been carried out with the commercial software ETABS v.9.6.0 to investigate seismic performance criteria i.e. ductility, over-strength, response modification factor of moment resisting RC frames retrofitted with different level of FRP additions and compared with the bare frame. From the analyses in general, both the load carrying capacity and displacement at failure is enhanced. In comparison to the bare frame, inter-story drift index at any floor level of the retrofitted frame is decreased for the same level of base shear capacity. Proper retrofitting scheme can be adopted from the analysis as per the requirement criteria of the project/design engineer.

**Keywords:** Fiber Reinforced Polymer (FRP), Pushover analysis, Response Modification Factor, Retrofitting

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