

FraMCoS-8 – 2013 Toledo Spain

Control of Cracking in RC structures: coupling phenomena and crack indicators

Cracking is an inherent phenomenon in concrete structures. However, its control is essential in order to ensure serviceability of structures throughout time and therefore it is a major concern for durability.

The international benchmark ConCrack (<http://www.concrack.org/>), organised around the experiments performed within the French national research program CEOS.fr -large RC specimens studied in various states (Serviceability Limit State, Ultimate Limit State) and various situations (monotonous loading, cyclic loading, THM loading, loading due to restrained shrinkage) - has shown that progress must be done to accurately simulate cracking in RC structures.

In this framework this session has for ambition to discuss about the state of the art related to the prevision of cracking phenomena in RC structures:

- relation type of loading-damage state;
- indicators for cracking phenomena (spacing, opening,...).

Part of the presentations will be reserved to the participants of the benchmark ConCrack; however, any other presentation falling within the scope of the session is welcome.