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Company footage
HD

October 2007

Construction Chemicals – high-tech components for construction materials

Application

10:00:00:00 Building exteriors

At the beginning of 2007, BASF's Competence Center for Construction Chemicals in Trostberg, Germany, was expanded to become BASF's global research platform "Polymers for Inorganics." More than 100 experts work here to develop new technologies in the fields of dispersions, polymer systems and polymer physics.

Around 100 new developments per year strengthen the product portfolio of BASF's Construction Chemicals division.

10:00:21:00 Test Grouting mortar test

Testing the properties of grouting mortar. Defined quantities of cement and sand are mixed. The consistency of the grouting mortar can be influenced with the help of plasticizers. The aim is to achieve an even, homogeneous consistency so that the mortar can spread optimally. This must be assured even after periods of 15, 30 and 45 minutes. The optimal flow of the mortar is measured in a gutter test.

10:02:43:00 Mixture test

Testing the flowability of self leveling cementitious mixtures. The aim of the test: the mixture must reach a minimum size, in this case a minimum diameter. As with grouting mortars, flowability must be guaranteed even after an extended period of time (up to 45 minutes).



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The mixture's self-healing properties are also tested. This means whether the mixture is capable of sealing any potential cracks, i.e. of closing again, even after long periods of time.

10:03:36:00 Slump flow test concrete

The fresh concrete is poured into a slump cone without additional compacting. The cone is then lifted up. The concrete begins to flow without any other support, merely under the effect of gravity. The mean diameter of the spreading concrete after it has stopped flowing represents the self compacting capacity of the concrete.

The metal J-Ring, which has smooth round rods, simulates the reinforcement bar and must be properly enclosed. The distance between the individual rods is based on the "largest particle" of the aggregate.

