

บรรณานุกรม

- [1] Carrasquillo Associates, LTD. (n.d.). **Concrete Durability**. Retrieved December 1, 2014, from http://www.carrasquilloassociates.com/gallery_durability.html.
- [2] วิศวกรรมสถานแห่งประเทศไทยในพระบรมราชูปถัมภ์. (2543). **ความคงทนของคอนกรีต**. กรุงเทพฯ: วิศวกรรมสถานแห่งประเทศไทยในพระบรมราชูปถัมภ์.
- [3] J. P. d. B. L. Hirozo Mihashi. (2004). Cracking risks associated with early age shrinka. *Advanced Concrete Technology*, 2, 141-154.
- [4] Fakultät für Bauingenieur- und Vermessungswesen and Formation of microcrack. (n.d.). **Institute for Building Materials**. Retrieved May 1, 2013, from <http://www.unibw.de/bauv3/forschung-en/mikrorisse>.
- [5] P. Yurtdas, He Burlion, Nicolas Skoczylas and Frédéric. (2006). Influences of water by cement ratio on mechanical properties of mortars submitted to drying. *Cement and Concrete Research*, 36(7), 1286-1293.
- [6] **Langley reservoir (16 Million Gallons) Langley, B.C.: Project for Building**. Retrieved May 10, 2013, from <http://www.xypexman.com/projects/proj-langley.html>
- [7] **Cement Concrete & Aggregate Auatalia. (2002). Drying Shrinkage of Cement and Concrete**. Retrieved May 10, 2013, from <https://www.ccaa.com.au/publications/pdf/DryingShrinkage.pdf>
- [8] T.S. Nagaraj and Zahida Banu. (1996). Generalization of Abrams' law. *Cement and Concrete Research*, 26(6), 933-942.
- [9] F. V. T. Zdražil, O. Kapičková. (2004). Effect of temperature and age of concrete on strength – porosity relation. *Acta Polytechnica*, 44(1), 53-56.
- [10] **ASK AN ENGINEER. (n.d.). Petrographic analysis of concrete at a lime production plant**. Retrieved May 10, 2014, from http://bauerepoxies.com/html/mineral_processing.html
- [11] **Penetron. (2010). Sulfate attack**. Retrieved 3, 2010, from <http://diendanxaydung.vn/showthread.php?t=31122>

- [12] Bauer Epoxies. (n.d.). **Severe corrosive chemical attack**. Retrieved May 10, 2014, from http://bauerepoxies.com/html/mineral_processing.html.
- [13] M.T. Bassuoni and M.L. Nehdi. (2007). Resistance of self-consolidating concrete to sulfuric acid attack with consecutive pH reduction. **Cement and Concrete Research**, 37 (7), 1070-1084.
- [14] Taylor and Francis. (2008). **Binders for durable and sustainable concrete**. United Kingdom, London: Pierre-Claude.
- [15] Terenee C.Holland. (April 2005). **Silica fume user's manual**. New York: U.S. Dept. of Transportation.
- [16] Hewayde, E., Nehdi, M. L., Allouche, E. and Nakhla, G. (2007). Using concrete admixtures for sulphuric acid resistance. **Construction Materials**, 160(1), 25-35.
- [17] B.-W. K. Jo, Chang-Hyun Tae, Ghi-ho Park and Jong-Bin. (2007). Characteristics of cement mortar with nano-SiO₂ particles. **Construction and Building Materials**, 21(6), 1351-1355.
- [18] Said, M. Z., Bassuoni, M. S. and Tian, M. T. (2012). Properties of concrete incorporating nano-silica. **Construction and Building Materials**, 36, 838-844.
- [19] Ye Qing, Zhang Zenan, Sheng Li and Chen Rongshen. (2006). A Comparative Study on the Pozzolanic Activity between Nano-SiO₂ and Silica Fume. **Journal of Wuhan University of Technology**, 21(1), 153-157.
- [20] Björnström, J., Matic, M. A., Börjesson, A. and L.Panas. (2004). Accelerating effects of colloidal nano-silica for beneficial calcium-silicate-hydrate formation in cement. **Chemical Physics Letters**, 32(1-3), 242-248.
- [21] K. L. C. Lin, W. C.Lin, D. F.Luo and H. L.Tsai. (2008). Effects of nano-SiO₂ and different ash particle sizes on sludge ash-cement mortar. **Journal of Environmental Management**, 88(4), 708-714.
- [22] Ye Qinga, Zhang Zenanc, Kong Deyua and Chen Rongshena. (2007). Influence of nano-SiO₂ addition on properties of hardened cement paste as compared with silica fume. **Construction and Building Materials**, 21(3), 539-545.

- [23] G. G. Quercia, G. Hüsken and H.J.H. Brouwers. (2012). Water demand of amorphous nano silica and its impact on the workability of cement paste. **Cement and Concrete Research**, 42(2), 344-357.
- [24] L. Senffa, D. Hotza, S. Lucas, V.M. Ferreira and J.A. Labrincha. (2012). Effect of nano-SiO₂ and nano-TiO₂ addition on the rheological behavior and the hardened properties of cement mortars. **Materials Science and Engineering**, 532, 354-361.
- [25] O. Kayali and B. Zhu. (2005). Corrosion performance of medium-strength and silica fume high-strength reinforced concrete in a chloride solution. **Cement and Concrete Composites**, 27(1), 117-124.
- [26] Min-Hong Zhang. (1991). Effect of silica fume on cement hydration in low porosity cement pastes," **Cement and Concrete Research**. **Cement and Concrete Research**, 21(5), 800-808.
- [27] Min-Hong Zhanga, Jahidul Islama and Sulapha Peethamparanb. (2012). Use of nano-silica to increase early strength and reduce setting time of concretes with high volumes of slag. **Cement and Concrete Composites**, 34(5), 650-662.
- [28] Quercia Bianchi, G., Spiesz, P.R., Hüsken, G. and Brouwers, H.J.H. (2012). Effects of amorphous nano-silica additions on mechanical and durability performance of SCC mixtures. In H. Justnes and S. Jacobsen (Eds.), **Conference Paper: Proceedings of the International Congress on Durability of Concrete, Trondheim, Norway** (pp. A2-4). Trondheim, Norway: NTNU Trondheim.
- [29] Omar, S., Baghabra Al-Amoudia, Mohammed Maslehuddina, M. Ibrahim, M. Shameema and M.H. Al-Mehthelb. (2011). Performance of blended cement concretes prepared with constant workability. **Cement and Concrete Composites**, 33(1), 90-102.
- [30] Omar, S. Baghabra Al-Amoudi, Taofiq O. Abiola and Mohammed Maslehuddin. (2006). Effect of superplasticizer on plastic shrinkage of plain and silica fume cement concretes. **Construction and Building Materials**, 20(9), 642-647.

- [31] O.S.B. Al-Amoudi, M. Maslehuddin, M. Shameem and M. Ibrahim. (2007). Shrinkage of plain and silica fume cement concrete under hot weather. *Cement and Concrete Composites*, 29(29), 690-699.
- [32] Rao, Appa G. (2001). Long-term drying shrinkage of mortar - influence of silica fume and size of fine aggregate. *Cement and Concrete Research*, 31(2), 171-175.
- [33] F. Girardi, W. Vaona and R. Di Maggio. (2010). Resistance of different types of concretes to cyclic sulfuric acid and sodium sulfate attack. *Cement and Concrete Composites*, 32(8), 595-602.
- [34] Mario Collepari, J. Jacob Ogoumah Olagot, Ulf Skarp, Ing. Roberto Troli. (2000). Influence of amorphous colloidal silica on the properties of self-compacting concretes. Retrieved May 10, 2014, from <http://www.encosrl.it/enco%20srI%20ITA/servizi/pdf/high/26.pdf>

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