

REFERENCES

- Akers, D. J., Bognacki, C., Green, D. J., Johnson, T. A., Kelsey, R. A., Phares, R. J., . . . Tobin, R. E. (1996). *Placing Concrete by Pumping Methods*. ACI Committee 304.
- Banfill, P. F. (2006). Rheology of fresh cement and concrete. *Rheology Reviews 2006*. Edinburgh, UK.
- Bognacki, C., Green, D. J., Johnson, T. A., Kelsey, R. A., Phares, R. J., Rhoads, R. J., . . . Tobin, R. E. (1996). *Placing Concrete by Pumping Methods*. ACI Committee 304.
- Brower, L. E., & Ferraris, C. F. (2003, August). Comparison of concrete rheometers. *Concrete international*, pp. 41-47.
- Choi, M. S., Kim, Y. j., & Kwon, S. H. (2013a, July 8). Prediction on pipe flow of pumped concrete based on shear-induced partical migration. *Cement and Concrete Research*, 52, 216-224.
- Choi, M. S., Kim, Y. J., Jang, K. P., & Kwon, S. H. (2014, June 17). Effect of the coarse aggregate size on pipe flow of pumped concrete. *Construction and Building Materials*, 66, 723-730.
- Choi, M., Roussel, N., Kim, Y., & Kim, J. (2013b, November 22). Lubrication layer properties during concrete pumping. *Cement and Concrete Research*, 45, 69-78.
- Ferraris, C. F., Brower, L., Banfill, P., Beaupre, D., Chapdelaine, F., Lerrard, F. d., . . . Wallevik, J. E. (2000). *Comparison of concrete rheometers*. Nantes, France: National Institute of Standards and Technology, U.S. Department of Commerce.
- Feys, D., Khayat, K. H., & Khatib, R. (2016). How do concrete rheology, tribology, flow rate and pipe radius influence pumping pressure. *Cement and Concrete Composites*, 66, 38-46.
- Feys, D., Khayat, K. H., Perez-Schell, A., & Khatib, R. (2014). Development of a tribometer to characterize lubrication layer properties of self-consolidating concrete. *Cement & Concrete Composites*, 54, 40-52.
- Feys, D., Khayat, K. H., Perez-Schell, A., & Khatib, R. (2015). Prediction of pumping pressure by means of new tribometer for highly-workable concrete. *Cement & Concrete Composites*, 57, 102-115.

- Feys, D., Verhoeven, R., & Schutter, G. D. (2009). Why is fresh self-compacting concrete shear thickening? *Cement and Concrete Research*, 39, 510-523.
- Güneyisi, E., Gesoglu, M., Naji, N., & İpek , S. (2016). Evaluation of the rheological behavior of fresh self-compacting rubberized concrete by using the Hershel-Bulkley and modified Bingham models. *Archives of Civil and Mechanical Engineering*, 16, 9-19.
- Jiao, D., Shi, C., Yuan, Q., Zhu, D., & Schutter, G. D. (2019). Effect of rotational shearing on rheological behaviour of fresh mortar with short glass fiber. *Construction and Building Materials*, 203, 314-321.
- Johansson, A., Tuutti, K., & Petersons, S. (1976). Pumpable concrete and concrete pumping. *Advances in Ready Mixed Concrete Technology*, 1976, 39-404.
- Jolin, M., Burns, D., Bissonnette, B., Gagnon, F., & Bolduc, L.-S. (2009). Understanding the pumpability of concrete. *Shotcrete for Underground Support XI*. Canada.
- Kaplan, D., Lerrard, F. D., & Sedran, T. (2005). Design of Concrete Pumping Circuit. *Aci Materials Journal*, 102(2), 110-117.
- Kaplan, D., Sedran, T., Lerrard, F. d., Vachon, M., & Marchese, G. (2001). Forecasting pumping parameters. *Proceedings of the 2nd international RILEM symposium on self compacting concrete*. Tokyo, (pp. 555-564). Tokyo.
- Kim, J. S., Kwon, S. H., Jang, K. P., & Choi, M. S. (2018, March 21). Concrete pumping presicion considering different measurement of the rheological properties. *Construction and Building Materials*, 171, 493-503.
- Krieger, I. M., & Dougherty, T. J. (1959). A Mechanism for Non-Newtonian Flow in Suspensions of Rigid Spheres. *Transactions of the Society of Rheology*, 3(1), 137-152.
- Kwon, S. H., Jang, K. P., Kim, J. H., & Shah, S. P. (2016). State of Art on Prediction of Concrete Pumpability. *International Journal of Concrete structures and Materials*, 10(3), s75-s85.
- Kyowa Electronic Instruments Co., L. (n.d.). *Strain Gage Wiring System / KYOWA*. Retrieved September 15, 2018, from Kyowa-ei.com: https://www.kyowa-ei.com/eng/technical/strain_gages/wiring.html

- Li, Z., Cao, G., & Guo, K. (2018). Numerical method for thixotropic behaviour of fresh concrete. *Construction and Building Materials*, 187, 931-941.
- Lowke, D. (2018). Thixotropy of SCC_A model describing the effect of particle packing and adsorption on thixotropic structural build-up of the mortar phase based on interparticle interactions. *Cement and Concrete Research*, 104, 94-104.
- Ma, K., Feng, J., Long, G., & Xie, Y. (2016). Effects of mineral admixtures on shear thickening of cement paste. *Construction and Building Materials*, 126, 609-616.
- Mechtcherine, V., Nerella, V. N., & Kasten, K. (2014). Testing pumpability of concrete using Sliding Pipe Rheometer. *Construction and Building Materials*, 53, 312-323.
- Nanayakkara, S. M. (2013, 12 5). *Digital Library University of Moratuwa Sri Lanka*. Retrieved 5 16, 2019, from <http://dl.lib.mrt.ac.lk/handle/123/9539>
- Nehdi, M., & Rahman, M. -A. (2004). Estimating rheological properties of cement pastes using various rheological models for different test geometry, gap and surface friction. *Cement and Concrete Research*, 34, 1993-2007.
- Ngo, T. T., Kadri, E. H., Bennacer, R., & Cussigh, F. (2010, January 12). Use of tribometer to estimate interface friction and concrete boundary layer composition during the fluid concrete pumping. *Construction and Building Materials*, 24, 1253-1261.
- Peng, J., Deng, D., Liu, Z., Yuan, Q., & Ye, T. (2014). Rheological models for fresh cement asphalt paste. *Construction and Building Materials*, 71, 254-262.
- Perera, K. D., Nanayakkara, S. M., & Dasanayaka, K. M. (2017). Evaluation of Pumpability of High Slump Concrete. Kandy, Sri Lanka: 8th International Conference on Structural Engineering and Construction Management, 2017.
- Roussel, N. (2006). A thixotropy model for fresh fluid concretes: Theory, validation and applicatioinis. *Cement and Concrete Research*, 36, 1797-1806.
- Roussel, N. (2016). *Understainding the Rheology of Concrete*. Elsevier Science,2016.
- Roussel, N., Ovarlez, G., Garrault, S., & Brumaud, C. (2012). The origins of thixotropy of fresh cement paste. *Cement and Concrete Research*, 42, 148-157.

- Secrieru, E., Cotardo, D., Mechtcherine, V., Lohaus, L., & Schrofl, C. (2018, March 26). Changes in concrete properties during pumping and formation of lubricating material under pressure. *Cement and Concrete Research*, 108, 129-139.
- Tamon, U., & Hiroshi, Y. (2010). *JSCE Guidelines for Concrete No. 16*. Tokyo, Japan: Japan Society of Civil Engineers.
- Tan, Y., Cao, G., Zhang, H., Wang, J., & Deng, R. (2015). Study on thixotropy of the fresh concrete using DEM. *Procedia Engineering*, 102, 1944-1950.
- Tattersall, G. H. (1975). Fresh concrete and workability problem. *Advances in Ready Mixed Concrete Technology*. Dundee University.
- Vance, K., Sant, G., & Neithalath, N. (2015). The rheology of cementitious suspensions: A closer look at experimental parameters and property determination using common rheological models. *Cement and Concrete Composites*, 59, 38-48.