

REFERENCES

- Abdias, M. W. M., Blanche, M. M., Nana, U. J. P., Abanda, H. F., François, N., & Chrispin, P. (2023). River Sand Characterization for Its Use in Concrete: A Review. *Open Journal of Civil Engineering*, 13(02), 353–366. <https://doi.org/10.4236/ojce.2023.132027>
- Ahangaran, F., Hassanzadeh, A., & Nouri, S. (2013). Surface modification of Fe₃O₄@SiO₂ microsphere by silane coupling agent. *International Nano Letters*, 3(1). <https://doi.org/10.1186/2228-5326-3-23>
- Ahmadi, S., & Eisaei, M. (2023). Composition, Properties, and Standards for Cementitious Ceramic Tile Adhesive: A Review. *Advanced Ceramics Progress*, 9(1), 15–27.
- Alshahwany, R. B. A. (2011). Effect of Partial Replacement of Sand with Limestone Filler on Some Properties of Normal Concrete. *AL-Rafdain Engineering Journal (AREJ)*, 19(3), 37–48. <https://doi.org/10.33899/rengj.2011.27014>
- ASTM C 1148 – 92a. (1997). Standard Test Method for Measuring the Drying Shrinkage of Masonry Mortar. *American Society for Testing and Materials, Reapproved*.
- ASTM C 40. (1999). Standard Test Method for Organic Impurities in Fine Aggregates for Concrete. *American National Standards Institute*.
- ASTM C136. (1996). Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates. *American Society for Testing and Materials*.
- ASTM C144. (1999). Standard Specification for Aggregate for Masonry Mortar. *American Society for Testing and Materials*.
- BS EN 1015-11. (1999). Methods of test for mortar for masonry - Determination of flexural and compressive strength of hardened mortar. *British Standard Institution*.
- BS EN 1015-3. (1999). Methods of test for mortar for masonry - Determination of consistence of fresh mortar (by flow table). *British Standard Institution*.
- BS EN 1015-4. (1999). Methods of test for mortar for masonry - Determination of consistence of fresh mortar (by plunger penetration). *British Standard Institution*.

- BS EN 1097-6. (2000). Tests for mechanical and physical properties of aggregates Part 4 : Determination - of the voids of dry. *British Standard Institution*.
- BS EN 12620. (2002). Aggregates for concrete. *British Standard*.
<https://doi.org/10.4324/9780203967874-16>
- BS EN 13139. (2002). Aggregates for mortar. *British Standard Institution*.
- BS EN 1744-1. (1998). Tests for chemical properties of aggregates - Part 1: Chemical analysis. *British Standards InstitutionBs*.
- BS EN 197-1. (2000). Cement -Part1:Composition, specification sand conformity criteria for common cements. *British Standard Institution*.
- BS EN 932-1. (1996). Tests for general properties of aggregates - Methods for sampling. *British Standard Institution*.
- Chew, M. Y. L. (1992). The study of adhesion failure of wall tiles. *Building and Environment*, 27(4), 493–499. [https://doi.org/10.1016/0360-1323\(92\)90047-S](https://doi.org/10.1016/0360-1323(92)90047-S)
- Das, R., & Das, S. N. (2003). Impact of wastewater discharge on soil and ground water - A case study. *Journal of Scientific and Industrial Research*, 62(3), 207–211.
- Dias, W. P. S., Seneviratne, G. A. P. S. N., & Nanayakkara, S. M. A. (2008). Offshore sand for reinforced concrete. *Construction and Building Materials*, 22(7), 1377–1384. <https://doi.org/10.1016/j.conbuildmat.2007.04.006>
- DKS 2129. (2008). Tile adhesive for marble , granite , ceramic and porcelain — Cement based — Specification. *KENYA STANDARD, December*.
- Ekanayaka, E., Jayawardene, M. N., Kannangara, K., & ... (2007). *Alternative for river sand*.
- Gelardi, G., Mantellato, S., Marchon, D., Palacios, M., Eberhardt, A. B., & Flatt, R. J. (2016). Chemistry of chemical admixtures. In *Science and Technology of Concrete Admixtures*. Elsevier Ltd. <https://doi.org/10.1016/B978-0-08-100693-1.00009-6>
- GÖL, C. (2006). *PRODUCTION OF CERAMIC TILES BY USING MARINE SLUDGE ADDITIVES* (Issue December 2006). <https://doi.org/10.13140/2.1.1067.2966>
- Hartmut, K., Margarita, P., & Eva-Marie, M. (2012). *EPOXY-BASED REDISPERSIBLE POLYMER POWDER*.

- Hayilu, F. A., & Sahu, O. (2013). Tile adhesive production by Inorganic materials. *International Journal of Innovation and Applied Studies*, 3(3), 866–870.
- HILD, A. (2017). Cementitious Tile Adhesive Compositions Containing Crosslinked Cellulose Ethers for Mortars With Enhanced Gel-Strength. In *World intellectual property organization, INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY*.
- ISO 13007-1. (2014). Ceramic tiles — Grouts and adhesives — Part 1: Terms, definitions and specifications for adhesives. *International Organization for Standardization*.
- ISO 13007-2. (2010). Ceramic tiles — Grouts and adhesives Part 2 : Test methods for adhesives. *International Organization for Standardization*.
- ISO 679. (2009). Cement — Test methods — Determination of strength. *International Organization for Standardization*.
- ISO 9597. (2008). Cement — Test methods — Determination of setting time and soundness. *International Organization for Standardization*.
- Johnson, O. A., Napiah, M., & Kamaruddin, I. (2014). Potential uses of waste sludge in construction industry: A review. *Research Journal of Applied Sciences, Engineering and Technology*, 8(4), 565–570. <https://doi.org/10.19026/rjaset.8.1006>
- Kiesewetter, R. (2015). TECHLINE 9 Improvement the Quality of Building Materials - International Norms for Tile Adhesives & Grouts. *The Dow Chemical Company*, 12.
- Lourenço, A., Silva, L., Fernandes, V., & Sequeira, P. (2022). Improved Cementitious Tile Adhesives' Workability and Mechanical Performance with the Use of Recycled Materials. *Infrastructures*, 7(9), 1–9. <https://doi.org/10.3390/infrastructures7090111>
- Nazari*, A., Riahi, S., Riahi, S., Fatemeh, S. S., & Khademno, A. (2010). Benefits of Fe₂O₃ nanoparticles in concrete mixing matrix. *Journal of American Science*, 6(4), 102–106.
- Oltulu, M., & Şahin, R. (2013). Effect of nano-SiO₂, nano-Al₂O₃ and nano-Fe₂O₃ powders on compressive strengths and capillary water absorption of cement

- mortar containing fly ash: A comparative study. *Energy and Buildings*, 58, 292–301. <https://doi.org/10.1016/j.enbuild.2012.12.014>
- Ozkahraman, H. T., & Işık, E. C. (2005). The effect of chemical and mineralogical composition of aggregates on tensile adhesion strength of tiles. *Construction and Building Materials*, 19(4), 251–255. <https://doi.org/10.1016/j.conbuildmat.2004.07.016>
- Petit, J. Y., Comelli, B., Perrin, R., & Wirquin, E. (2016). Effect of formulation parameters on adhesive properties of ANSI 118-15 and 118-11 compliant tile adhesive mortars. *International Journal of Adhesion and Adhesives*, 66, 73–80. <https://doi.org/10.1016/j.ijadhadh.2015.12.011>
- Petit, J. Y., & Wirquin, E. (2013). Evaluation of various cellulose ethers performance in ceramic tile adhesive mortars. *International Journal of Adhesion and Adhesives*, 40, 202–209. <https://doi.org/10.1016/j.ijadhadh.2012.09.007>
- Phan, & Van-Tien. (2013). *Relationship between the adhesive properties and the rheological behavior of fresh mortars*. <https://theses.hal.science/tel-00802664v1>
- Piyadasa, R. U. K. (2011). River sand mining and associated environmental problems in Sri Lanka. *IAHS-AISH Publication*, 349(December 2004), 148–153.
- Raman, S. N. (2014). *Utilization of Quarry Waste Fine Aggregate in Concrete Mixtures Utilization of Quarry Waste Fine Aggregate in Concrete Mixtures*. January 2007.
- Ramesh, M., Rajeshkumar, L. N., Srinivasan, N., Kumar, D. V., & Balaji, D. (2022). Influence of filler material on properties of fiber-reinforced polymer composites: A review. *E-Polymers*, 22(1), 898–916. <https://doi.org/10.1515/epoly-2022-0080>
- Samangi, W. :, Abeyrathne, H., & Mudiyansele, H. (2023). *Unregulated River Sand Mining in Sri Lanka : a Way Forward for Sustainable River Sand Mining*. April, 0–15.
- SLS 1397. (2010). Specification for Fine aggregates for concrete & mortar. *Sri Lanka Standard Institution*.
- Suraweera, A., Fernando, S., Muthurathna, S. S. K., & Guluwita, S. (2023). Use of off-shore sand sludge as a replacement for silica sand fillers in cementitious tile adhesive production. *12th Annual Research Symposium*, 12(January), 291–298.

- Teychenné, D., Franklin, R., & Erntroy, H. (1988). *Design of normal concrete mixes*. BRE Electronic Publications.
- The Ministry of Environment and Natural Resources. (2005). *National Policy on Sand as a Resource for the Construction Industry (DRAFT)* | ELAW.
- Warnken, G. H. E. (1977). *Epoxy resin powder including ethylene vinyl acetate*.
- Wetzel, A., Herwegh, M., Zurbriggen, R., & Winnefeld, F. (2012). Influence of shrinkage and water transport mechanisms on microstructure and crack formation of tile adhesive mortars. *Cement and Concrete Research*, 42(1), 39–50. <https://doi.org/10.1016/j.cemconres.2011.07.007>
- Winnefeld, F., Kaufmann, J., Hack, E., Harzer, S., Wetzel, A., & Zurbriggen, R. (2012). Moisture induced length changes of tile adhesive mortars and their impact on adhesion strength. *Construction and Building Materials*, 30, 426–438. <https://doi.org/10.1016/j.conbuildmat.2011.12.023>