

References

1. Bentur A. *Mindess S. Fibre reinforced cementitious composites*. Taylor & Francis, London, 2007.
2. Zheng Z, Feldman D. Synthetic fibre – reinforced concrete. *Progress in Polymer Science* 1995; 20: 185-210.
3. Song PS, Hwang S, Sheu BC. Strength properties of nylon and polypropylene fibre reinforced concretes. *Cement and Concrete Research* 2005; 35: 1546-1550.
4. Zhang S, Zhao B. Effect of polypropylene fibres on the toughness of concrete materials. *Advanced Materials Research* 2012; 535-537: 1965-1968.
5. Segre N, Tonella E, Joekes I. Evaluation of the Stability of Polypropylene Fibres in Environments Aggressive to Cement-Based Materials. *Cement and Concrete Research* 1998; 28: 75-81.
6. Alz T, Sanjaza JG, Collins F. Effect of polypropylene fibres on shrinkage and cracking of concretes. *Materials and Structures* 2008; 41: 1741-1753.
7. Barluenga G. Fibre-matrix interaction at early ages of concrete with short fibres. *Cement and Concrete Research* 2010; 40: 802-809.
8. Sun Z, Xu Q. Microscopic, physical and mechanical analysis of polypropylene fibre reinforced concrete. *Materials Science and Engineering* 2009; A 527: 198-204.
9. Kakooei S, Md Akil H, Jamshidi M, Rouhi J. The effects of polypropylene fibres on the properties of reinforced concrete structures. *Construction and Building Materials* 2012; 27: 73-77.
10. Cifuentes H., Garcia F, Maeso O, Medina F. Influence of the properties of polypropylene fibres on the fracture behaviour of low-, normal- and high-strength FRC. *Construction and Building Materials* 2013; 45: 130-137.
11. Khaliq W, Kodur V. Thermal and mechanical properties of fibre reinforced high performance self-consolidating concrete at elevated temperatures. *Cement and Concrete Research* 2011; 41: 1112-1122.
12. Liu X, Ye G, De Schutter G, Yuan Y, Taerwe L. On the mechanism of polypropylene fibres in preventing fire spalling in self-compacting and high-performance cement paste. *Cement and Concrete Research* 2008; 38: 487-499.
13. Pakravan HR, Jamshidi M, Latifi M, Pacheco-Torgal F. Cementitious Composites Reinforced With Polypropylene, Nylon and Polyacrylonitile Fibres. *Materials Science Forum* 2013; 730-732: 271-276.
14. Li VC, Stang H. Interface Property Characterization and Strengthening Mechanisms in Fibre Reinforced Cement Based Composites. *Advanced Cement Based Materials* 1997; 6: 1-20.
15. Yue CY, Cheung WL. Interfacial properties of fibre-reinforced composites. *Journal of Material Science* 1992; 27: 3843-3855.
16. Singh S, Shukla A, Brown R. Pullout behaviour of polypropylene fibres from cementitious matrix. *Cement and Concrete Research* 2004; 34: 1919-1925.
17. Tu L, Kruger D, Wagener JB, Cartens PAB. Wettability of Surface Oxyfluorinated Polypropylene fibres and Its Effect on Interfacial Bonding with Cementitious Matrix. *Journal of Adhesion* 1997; 62: 187-211.
18. Broda J, Przybylo S, Lewandowski S. Selection of Optimal Formation Parameters of Polypropylene Fibrillated Fibres Designed for Concrete Reinforcement. *Fibres & Textiles in Eastern Europe* 2012; 95: 69-74.

19. Bhat NV, Upadhyay DJ. Plasma induced surface modification and adhesion enhancement of polypropylene surface. *Journal of Applied Polymer Science* 2001; 86: 925-936.
20. Inagaki N, Tasaka S, Imai M. Hydrophilic surface modification of polypropylene films by CCl₄ plasma. *Journal of Applied Polymer Science* 1993; 48: 1963-1972.
21. Felekoglu B, Tosun K, Baradan B. A comparative study on the bending performance of plasma treated polypropylene fibre reinforced cementitious composites. *Journal of Materials Processing Technology* 2009; 209: 5133-5144.
22. Lopez-Buendia AM, Romero-Sanchez MD, Climent V, Guillem C. Surface treated polypropylene (PP) fibres for reinforced concrete. *Cement and Concrete Research* 2013; 54: 29-35.
23. Bangi MR, Horiguchi T. Effect of fibre type and geometry on maximum pore pressures in fibre-reinforced high strength concrete at elevated temperatures. *Cement and Concrete Research* 2012; 42: 459-466.
24. Bonthia N, Gupta R. Influence of polypropylene fibre geometry on plastic shrinkage cracking in concrete. *Cement and Concrete Research* 2006; 36: 1263-1267.
25. Behdouj Z, Jamshidi M, Latifi M, Halvaei M. Effect of cross sectional shape of polypropylene fibres on bending toughness of composites and fibre-to-cement matrix adhesion. *Advanced Materials Research* 2013; 687: 485-489.
26. Richardson AE. Compressive strength of concrete with polypropylene fibre additions. *Structural Survey* 2006; 24: 138-153.
27. Mindess S, Vondran G. Properties of concrete reinforced with fibrillated fibres under impact loading, *Cement and Concrete Research* 1988; 18: 109-115.
28. Parveen, A. Sharma, Structural Behaviour of Fibrous Concrete Using Polypropylene Fibres. *International Journal of Modern Engineering Research* 2013; 3: 1279-1282.
29. Alhozaimy AM, Soroushian P, Mirza F. Mechanical Properties of Polypropylene Fibre Reinforced Concrete and the Effects of pozzolanic materials. *Cement and Concrete Research* 1996; 18: 85-92.
30. Aulia TB. Effects of polypropylene fibres on the properties of high-strength concretes. *Lacer* 2002; 7: 43-59.
31. Nanni A, Meamarian N. Distribution and opening of fibrillated polypropylene fibres in Concrete. *Cement and Concrete Research* 1991; 13: 107-114.
32. Bentur A, Mindess S, Vondran G. Bonding in polypropylene fibre reinforced concretes. *International Journal of Cement Composites and Lightweight Concrete* 1989; 11: 153-158.
33. Stanisz A. *Przystępny kurs statystyki na przykładach z medycyny z wykorzystaniem programu STATISTICA*, t. II, ed. II, Statsoft, Kraków 2006.
34. Lewandowski S, Drobina R, Józkowicz I. Comparative Analysis of the Ring Spinning Process, Both Classic and Compact: Theoretical Reflections. Part I: Elaboration of the Statistical Model Based on Multiple Regression. *Fibers & Textiles in Eastern Europe* 2010; 4 (81): 20-24.
35. Zollo RF. Fibre-reinforced Concrete: an Overview after 30 Years of Development. *Cement and Concrete Composites* 1997; 19: 107-122.