Appendix A. Supplementary data

Table A1. Raw data of short-term compressive strength (2 d).

|  |  |  |  |
| --- | --- | --- | --- |
| Formulation | compressive strength (MPa) | Standard deviation (MPa) | Coefficient of variation (%) |
| S1 | 39.44 | 1.41 | 4 |
| S2 | 55.49 | 8.75 | 16 |
| S3 | 82.88 | 2.95 | 4 |
| D1 | 73.89 | 1.32 | 2 |
| D2 | 69.17 | 3.01 | 4 |
| D3 | 61.44 | 4.73 | 8 |
| A1 | 82.88 | 2.95 | 4 |
| A2 | 80.05 | 9.10 | 11 |
| A3 | 71.48 | 7.23 | 10 |
| A4 | 73.36 | 1.37 | 2 |
| A5 | 69.54 | 1.98 | 3 |
| A6 | 56.53 | 2.01 | 4 |
| A7 | 59.32 | 2.80 | 5 |
| A8 | 45.82 | 2.17 | 5 |
| W1 | 97.08 | 3.42 | 4 |
| W2 | 85.61 | 3.27 | 4 |

**Table A2.** Raw data of short-term compressive strength (7/14 d).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Formulation | Compressive strength (7 d) (MPa) | Compressive strength (14 d) (MPa) | Standard deviation (MPa) | Coefficient of variation (%) |
| D1 | 70.88 | - | 1.75 | 2 |
| D2 | 65.73 | - | 1.17 | 2 |
| D3 | 58.64 | - | 2.91 | 5 |
| A1 | 79.17 | - | 6.17 | 8 |
| A2 | 75.74 | - | 7.12 | 9 |
| A3 | 73.81 | - | 2.80 | 4 |
| A4 | - | 67.86 | 8.43 | 12 |
| A5 | - | 63.50 | 6.42 | 10 |
| A6 | - | 58.70 | 0.35 | 1 |
| A7 | - | 53.06 | 6.09 | 11 |
| A8 | - | 42.63 | 1.74 | 4 |
| W1 | 71.04 | - | 5.27 | 7 |
| W2 | 59.31 | - | 1.52 | 3 |

**Table A3.** Raw data of short-term compressive strength (30 d).

|  |  |  |  |
| --- | --- | --- | --- |
| Formulation | Compressive strength (MPa) | Standard deviation (MPa) | Coefficient of variation (%) |
| S1 | 21.62 | 2.40 | 11 |
| S2 | 34.44 | 1.92 | 6 |
| S3 | 72.76 | 2.12 | 3 |
| D1 | 61.07 | 3.59 | 6 |
| D2 | 54.14 | 1.94 | 4 |
| D3 | 48.95 | 1.17 | 2 |
| A1 | 72.76 | 2.12 | 3 |
| A2 | 67.39 | 5.09 | 8 |
| A3 | 67.70 | 2.25 | 3 |
| A4 | 51.40 | 0.99 | 2 |
| A5 | 56.57 | 4.31 | 8 |
| A6 | 44.34 | 5.18 | 12 |
| A7 | 50.11 | 1.26 | 3 |
| A8 | 37.80 | 1.32 | 4 |
| W1 | 52.40 | 12.54 | 24 |
| W2 | 45.58 | 5.99 | 13 |

Table A4. Raw data of long-term compressive strength (2 d and 60 d).

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Formulation | Compressive strength (2 d) (MPa) | Standard deviation(MPa) | Coefficient of variation (%) | Compressive strength (60 d) (MPa) | Standard deviation(MPa) | Coefficient of variation (%) |
| Z1 | 68.46 | 2.78 | 4 | 49.59 | 0.72 | 1 |
| Z2 | 60.69 | 2.39 | 4 | 45.11 | 3.43 | 8 |
| Z3 | 56.01 | 2.91 | 5 | 42.88 | 2.24 | 5 |

Table A5. Raw data of long-term compressive strength (90 d and 180 d).

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Formulation | Compressive strength (90 d) (MPa) | Standard deviation(MPa) | Coefficient of variation(%) | Compressive strength (180 d) (MPa) | Standard deviation(MPa) | Coefficient of variation (%) |
| Z1 | 35.85 | 6.31 | 18 | 17.17 | 0.32 | 2 |
| Z2 | 32.18 | 3.14 | 10 | 17.01 | 0.30 | 2 |
| Z3 | 32.51 | 1.44 | 4 | 20.01 | 0.47 | 2 |