

|   |                 | Quicklime | Hydrated lime |                                     | Pozzolana | Opus signinum |          | Iron powder |
|---|-----------------|-----------|---------------|-------------------------------------|-----------|---------------|----------|-------------|
| Composition (%)                                       | CaO + MgO       | $\geq 90$ | $\geq 90$     | SiO <sub>2</sub>                    | 48.5      | 49.8          | Fe       | > 99        |
|   | MgO             | $\leq 5$  | $\leq 5$      | Al <sub>2</sub> O <sub>3</sub>      | 17.5      | 15.5          | C        | 0.05        |
|   | CO <sub>2</sub> | $\leq 4$  | $\leq 4$      | Fe <sub>2</sub> O <sub>3</sub>      | 8.1       | 7.0           | O        | 0.6         |
|   | SO <sub>3</sub> | $\leq 2$  | $\leq 2$      | CaO                                 | 10.9      | 9.9           |          |             |
|   |                 |           |               | MgO                                 | 2.8       | 3.8           |          |             |
|   |                 |           |               | SO <sub>3</sub>                     | 0.2       | –             |          |             |
|   |                 |           |               | Na <sub>2</sub> O                   | 1.0       | 1.3           |          |             |
|   |                 |           |               | K <sub>2</sub> O                    | 5.5       | 2.6           |          |             |
|   |                 |           |               | Reactive silica as SiO <sub>2</sub> | 38.6      | 32.2          |          |             |
| Apparent density (kg m <sup>-3</sup> )                |                 | 850       | 400           |                                     | 900       | 880           |          | 4000        |
| Particle size distribution (mass % passing the sieve) | 0.2 mm          | –         | $\geq 98$     | 0.063 mm                            | $\geq 90$ | $\geq 90$     | 0.16 mm  | $\geq 99.8$ |
|   | 0.09 mm         | 100       | $\geq 93$     | 0.05 mm                             | $\geq 85$ | $\geq 85$     | 0.1 mm   | $\geq 79.6$ |
|   |                 |           |               |                                     |           |               | 0.063 mm | $\geq 69$   |