

Portland cement

Portland cement (also known as common or general-purpose cement) is manufactured from limestone, clay and gypsum. A range of additional minerals or additives can be added to control the properties of the finished cement.

Limestone and other raw materials are heated at over 1 000°C to produce clinker. The clinker is then mixed with gypsum and ground into a fine powder to produce Portland cement.

Portland cement is typically used as a binder for concrete and cement-based products, such as fibre cement sheet and cement mortar. When mixed with water it forms a workable slurry that undergoes a process known as hydration, setting within a few hours and forming its final hardened state within weeks.

Category	Concrete and plaster products
Туре	Other minerals
Functional unit	kg
Specific heat	920 J/(kg·K)
Density	1 500 kg/m³
Common uses	

Concrete, fibre cement sheet, fibre cement weatherboard, cement mortar, cement render

Process name Ordinary portland cement, at plant/AU U

Input-output sector Cement, Lime and Ready-Mixed Concrete Manufacturing

Further information doi.org/10.26188/5da55701cee5d











TOP THREE INPUTS





