

Cement Types

Civil Engineering

What replacing clinker buys you.

Additions change the rate of gain, the heat and the durability.

Type	Behaviour
Portland, CEM I	Fast strength gain, high heat
With fly ash	Slower gain, lower heat
With ground slag	Slow, durable, sulfate resistant
With limestone filler	Less clinker, modest change
Sulfate resisting	For aggressive ground sulfates
Rapid hardening	Early strength, more heat again

Educational reference. Cement choice follows exposure class, heat limits and the specification for that element.