

Alpha Standard

Conventional concrete done right.

Grades	Slump	Lead Time	Temperature	Certifications
M15-M40	50-150mm	Same day	Standard	BIS, IS 456

Key Features

Standard mix designs. M15, M20, M25, M30, M35, M40 grades with proven mix designs. Cement-aggregate-water proportions optimized over hundreds of pours.

Same-day availability. For repeat customers and standard grades, same-day delivery available subject to plant capacity and order volume.

Cost-optimized. Competitive pricing through optimized mix design, efficient logistics, scale advantage. Quality-cost balance for general construction.

Reliable quality. Standard mix designs tested and proven. Cube pass rate >99% over last 12 months. Consistent delivery.

All conventional grades M15-M40. Lean concrete (M10-M15) through standard structural (M20-M40). Single-source supply for entire residential project.

Standard workability. Slump 50-150mm depending on application. Standard placement methods (manual, wheelbarrow, pump capability for higher grades).

Technical Specifications

Parameter	Value
Compressive Strength (28-day)	15 – 40 N/mm ² (per grade)
Cement Type	OPC 43 / OPC 53 / PPC
Cement Content	250 – 380 kg/m ³
Mineral Admixture	Fly ash 15-25% (in PPC) or none
W/C Ratio	0.45 – 0.60 (per grade and exposure)
Coarse Aggregate	20mm + 10mm crushed granite, IS 383 compliant
Fine Aggregate	Manufactured sand (M-sand)
Chemical Admixture	Standard plasticizer or superplasticizer
Slump	50 – 150 mm (per application)
Density	2350 – 2420 kg/m ³
Setting Time (initial)	4 – 6 hours
Code Reference	IS 456:2000, IS 8112, IS 12269, IS 1489

Applications

Residential Buildings. Independent houses, apartment complexes up to 8-10 floors, villas. Standard RCC frame structure.

General Construction. Small commercial buildings, schools, clinics, retail. Standard structural elements.

Plinth & Footings. Foundation lean concrete, plinth beams, footings, retaining walls. Below-ground elements.

Secondary Structural Elements. Lintels, parapet walls, pump rooms, water tanks, staircases.

Available Grades

M15 — Lean concrete, fill, plinth protection.

M20 — Standard residential RCC, plinth beams.

M25 — Mid-residential RCC, slabs.

M30 — Standard commercial, mid-rise residential.

M35 — Premium residential, mid-rise commercial.

M40 — High residential, low-rise commercial.

Disclaimer: The specifications shown represent typical ranges. Actual mix designs are project-specific and subject to verification by Alpha Concrete's QC team. Quoted specifications must be confirmed against actual lab results before commercial commitment.