

PCE-G300

CemBond PCE-G300

High-Performance PCE - Polycarboxylate-ether superplasticizer

A high-range PCE superplasticizer engineered for high-strength concrete (M45-M70+), self-compacting concrete and fast-cycle precast at low water/cement ratio with high early strength.

TYPICAL PROPERTIES

Appearance	Light brown viscous liquid
Base	Polycarboxylate ether (TPEG/HPEG)
Solid content	31%
Relative density at 25 C	1.068
Chloride content	0.012% (chloride-free, < 0.2%)
pH	7.2 (min 6)
Alkali content (Na ₂ O eq)	< 1.5% (low alkali)
Water reduction	up to 25 - 30%
Recommended dosage	0.8 - 1.6% by weight of cement
Air entrainment	< 2% additional
Standard	IS 9103:1999 / ASTM C494 Type F

PERFORMANCE - IS 9103:1999 UNIFORMITY TEST (% OF CONTROL)

Compressive strength	3 day	7 day	28 day
Result	157%	146%	135%
Requirement	min 150%	min 140%	min 130%

APPLICATIONS

HPC, SCC, prestressed and fast-cycle precast, metro segments, high-rise cores, bridge decks, marine HPC.

COMPATIBILITY

Compatible with OPC 43/53, PPC, PSC and SRC cements; fly ash (<=35%), GGBS (<=50%), silica fume (<=10%) and Alcofine. Caution: do not cross-contaminate with naphthalene (SNF) admixtures in shared lines - risk of flash set or slump loss.

PACKAGING, STORAGE & SHELF LIFE

Supplied in 225 kg HDPE drums, 1000 kg IBC totes and bulk tankers on request. Store between 5 C and 40 C, away from direct sunlight and frost. Shelf life 12 months from manufacture in unopened containers. Stir if mild settlement occurs.