

**PCE-S100**

# CemBond PCE-S100

Standard PCE - Polycarboxylate-ether superplasticizer

A new-generation polycarboxylate-ether (PCE) superplasticizer for general and ready-mix concrete (M15-M40). Balanced water reduction with normal set and 60-90 minutes of slump retention.

**TYPICAL PROPERTIES**

Appearance	Light brown viscous liquid
Base	Polycarboxylate ether (TPEG/HPEG)
Solid content	36%
Relative density at 25 C	1.080
Chloride content	0.013% (chloride-free, < 0.2%)
pH	7.1 (min 6)
Alkali content (Na <sub>2</sub> O eq)	< 1.5% (low alkali)
Water reduction	up to 25 - 30%
Recommended dosage	0.5 - 0.9% 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	<b>160%</b>	<b>148%</b>	<b>136%</b>
Requirement	min 150%	min 140%	min 130%

**APPLICATIONS**

Standard RMC, pavements, PQC, structural RCC, water-retaining structures, repair mortars.

**COMPATIBILITY**

Compatible with OPC 43/53, PPC, PSC and SRC cements; fly ash (<=35%), GGBS (<=50%), silica fume (<=10%).  
 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.