



Product Data Sheet - CM123 & CM120

DESCRIPTION

- Polycarboxylate superplasticizer
- High range water reducing and retardation concrete admixture
- Comply with ASTM C494-Type G
- Comply with BS EN 934-Part 2

BRIEF INTRODUCTION

- CM123 & CM120 is liquid product composed of polycarboxylate and several surface active substances
- General using in ready mix concrete
- Moderate dosage range by weight is 0.6% ~ 1.7% of total weight cementitious
- Total cementitious weight = OPC + Pozzolanic material (as PFA, GGBS, Silicafume, etc.)
- Shelf life has 1 year

USE IN STRUCTURE

- General structure elements
 - ❖ Super structure : Slab, beam, column and wall
 - ❖ Sub structure : Foundation, bored pile and slurry wall

USE IN CONCRETE

- General concrete
- Mass concrete
- Durability concrete
- Sulfate resistance concrete
- Water permeability resistance concrete

PRODUCT INFORMATION

Packaging	▪ 210kg drum ▪ 1100kg IBC tank ▪ 20 feet container (21 tonnes)
Appearance	▪ Light brown liquid
Specific Gravity	▪ 1.05 +/- 0.03g/cm3
Solid Ingredient Content	▪ 17 +/- 3%
PH Value	▪ 4.5 +/- 1
Storage condition	▪ Store under roof cover, protected from direct sunlight

MAIN FUNCTION / ADVANTAGES

1. Enhance concrete strength
 - Moderate water cement ratio
 $W/C = 0.4 \rightarrow 0.7$ range
 - Suitable strength range
C50, C40, C20, C15
2. Improving pumping and placing workability
 - Concrete product has less sticky performance
 - Suitable slump range :
S2(N) grade, S3 (P & T₁) Grade
S4 (T₂ & T₃) Grade
3. Reducing concrete shrinkage cracks and cold joint
 - Prolong initial setting time (1.5 hours to 3 hours)
 - Moderate enlarge slump to reduce extra water in pumping work
4. ESG (Environmental, Social, and Governance) application to reduce carbon emissions
 - Use higher pozzolanic material concrete (as PFA, GGBS, etc.)

S2 - 75 +/- 25 mm



S3 - 125 +/- 25 mm



S4 - 185 +/- 25 mm



S5 - ≥ 220 mm

