



# Product Data Sheet – CM727

## 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

- CM727 is liquid product composed of polycarboxylate and several surface active substances
- General using in ready mix and precast concrete
- Moderate dosage range by weight is 0.6% ~ 1.8% 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 and marine structure
  - ❖ High rising building
  - ❖ Vertical sliding form

## USE IN CONCRETE

- General concrete and high strength concrete
- Power float concrete and short crete concrete
- Post tension prestress concrete
- High performance concrete
  - ❖ RCPT test below 1000 Coulomb
  - ❖ WPT test below 10mm

## PRODUCT INFORMATION

|                          |                                                                                                                                |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Packaging                | <ul style="list-style-type: none"><li>▪ 210kg drum</li><li>▪ 1100kg IBC tank</li><li>▪ 20 feet container (21 tonnes)</li></ul> |
| Appearance               | <ul style="list-style-type: none"><li>▪ Light brown liquid</li></ul>                                                           |
| Specific Gravity         | <ul style="list-style-type: none"><li>▪ 1.05 +/- 0.03g/cm3</li></ul>                                                           |
| Solid Ingredient Content | <ul style="list-style-type: none"><li>▪ 20 +/- 3%</li></ul>                                                                    |
| PH Value                 | <ul style="list-style-type: none"><li>▪ 4.5 +/- 1</li></ul>                                                                    |
| Storage condition        | <ul style="list-style-type: none"><li>▪ Store under roof cover, protected from direct sunlight</li></ul>                       |

## MAIN FUNCTION / ADVANTAGES

- 1.Enhance concrete strength
  - Moderate water cement ratio  
Minimum W/C = 0.3 → 0.55 range
  - Suitable strength range  
C70,C60,.....C35,C30
- 2.Improving pumping and placing workability
  - Concrete product has less sticky performance
  - Suitable slump range :  
S2(N) grade, S3 (P & T<sub>1</sub>) Grade  
S4 (T<sub>2</sub> & T<sub>3</sub>) Grade, S5 (SCC)
- 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

