HPC CONCRETE ADMIXTURE SDN BHD
HPC CONCRETE CONSULTANCY SDN BHD

Product Data Sheet – CM656

DESCRIPTION

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

BRIEF INTRODUCTION

- CM656 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 cementitous
- 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 and long distance pumping work
  - ❖ Bored pile and diaphragm wall
  - ❖ Mass concrete foundation
  - ❖ Box Girder

USE IN CONCRETE

- General concrete and high strength concrete
- Slump retension concrete for 2 hours to 6 hours
- Shotcrete concrete
- Post tension prestress concrete
- High performance concrete
  - ❖ RCPT test below 1000 Coulomb
  - ❖ WPT test below 10mm

MAIN FUNCTION / ADVANTAGES

1.Enhance concrete strength
- Moderate water cement ratio
  Minimum W/C = 0.32 → 0.55 range
- Suitable strength range
  C60,C50,…….C35,C30

2.Improving pumping and placing workability
- Concrete product has less sticky performance
- Suitable slump range :
  S3 (P & T_1) Grade
  S4 (T_2 & T_3) Grade, S5 (SCC)

3.Reducing concrete shrinkage cracks and cold joint
- Slump retension (from 2 hours to 6 hours) base on dosage content
- 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

PRODUCT INFORMATION

Packaging	▪ 210kg drum ▪ 1100kg IBC tank ▪ 20 feet container (21 tonnes)
Appearance	▪ Light brown liquid
Specific Gravity	▪ 1.06 +/- 0.03g/cm3
Solid Ingredient Content	▪ 20 +/- 3%
PH Value	▪ 4.2 +/- 0.3
Storage condition	▪ Store under roof cover, protected from direct sunlight

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The Manufacturer of Concrete Admixture in Taiwan

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