



TIMM-CAR 500

Water reduction type superplasticizer

Description

TIMM-CAR 500 is aqueous carboxylic acid copolymer as water reduction type superplasticizer. It is the 3rd generation superplasticizer which shows high water Reduction and excellent fluidity or workability performance. TIMM-CAR 500 is Usually used in the production of high fluidity concrete and high strength concrete.

Features

- Improve workability or water reduction in concrete.
- Improve strength of concrete.
- Reduce slump loss
- Decrease bleeding of materials separation

Applications

- High-performance concrete
- High-fluidity concrete or Self-compacting concrete
- High-strength concrete

Specifications:

Items	Spec.	Remark
Appearance	Brownish liquid	Visual
N.V.M(%)	+/- 50%	105°C, 40 min
pH	3.0 +/- 1.0	pH meter
Viscosity	Max. 700 cps	# 2.60rpm
Specific gravity	1.12 +/- 0.05	20°C

Guidance

- Normally it can be used 0.5 to 3 % of the weight of cement.
- After completing enough test, please choose the best formulation.
- It can be used with sodium based lignin admixture and inorganic accelerated hardening agent

Handling and Storage

- Non-flammable&non-toxic. In contact with skin or clothing, wash with water.
- Keep containers closed when not in use
- When frozen, it can be used after being melt, but please check its functions before use.
- Before use, please check and read through MSDS.

CONCRETE TEST RESULTS

1. CONCRETE MIXING DESIGN

W/C (%)	S/a (%)	Peso de la unidad (kg/cm2)					Dosage (Cx%)
		C	F/A	W	S	G	
53.0	48.0	320	-	170	881	966	0.7

C : Ordinary Portland Cement Type

F/A : Fly Ash

2. ADMIXTURE MIXING RATIO

Sample No.	POWER-CON-HS	TIMM CAR 500	WATER	Anti-foaming Agent	Concentration (%)
1	43.5	-	56.5	-	40
2	-	30	70.0	0.1	15
3	-	20	80.0	0.1	10

Solid Content of POWERCON-HS : 92%

Solid Content of POWERFLOW WD-500 : 50%

CONCRETE TEST RESULTS

3. TEST RESULTS

3-1 SLUMP

The workability of concrete can be improved by using TIMM-CAR 500, even though the dosage of TIMM-CAR 500 is lower than that of POWERCON-HS.

3-2 COMPRESSIVE STRENGTH

TIMM-CAR 500 increase the compressive strength of concrete because of no delation of cement hydration.

NOTA:

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