



MIGHTY 512

High range water reducing agent retention type

【Introduction of MIGHTY500 series】

Mighty 500 is long series have been developed with our passion to contribute not only for ready-mixed concrete industry, but also human society toward the 21st century. Mighty 500 series could provide great productivity at production plant and excellent workability at job site as solutions.

【What is unique feature of MIGHTY 500?】

The situation surrounding construction industry have been drastically changing, such as complicated construction method and beneficial use of materials from other industry to reduction carbon dioxide. Otherwise, the requirement for superplasticizer are further diversity. As for the concrete consists of slag or fly-ash, conventional polycarboxylates (PC) type superplasticizer is not suitable for this application, because of some issues.

Mighty 500 series and special product had been designed for this purpose, manufacturing slump concrete. This product has superior feature than of conventional PC type superplasticizer as below.

- Less slump-loss.
- Robustness to concrete materials.
- Less sticky of fresh concrete.

Nowadays this product have been commonly used for ready mixed concrete on daily bases for long time.

【Application】

- High strength concrete
- Using blast-furnace slag cement & fly-ash cement
- Mass Concrete
- Long time slump retention (ex. Prevent cold joint)

【Product Data & Technical Data】

Chemical Base : Aqueous solution of modified polymer.

S.G : 1.10-1.20

pH : 4.0 – 7.0

Color : Dark brownish color

Chloride ion content: negligible

Usage ; 1.2-1.5% by weight of cement depend on mix design and quality of raw material

Packaging; Iron drum (240kg)

Storage Condition; Keep drum or container tightly closed. Protect from sun. Store in a dark and well ventilated place under 5 – 35 degree C temperature.

【Safety Information】

Non-toxic aqueous solution of un-reactive and un-corrosive chemicals. No-compatibility with a different type of admixture, an effect of them should be reduced before mixing, for example washing of mixer.

【Example of Test Result】

Table1. The mix design of concrete

MIX design					
W/C (%)	s/a (%)	Unit content (kg/m3)			
		Water	Cement	Sand	Gravel
39	42	176	450	716	1039

Cement : Ordinary Portland Cement

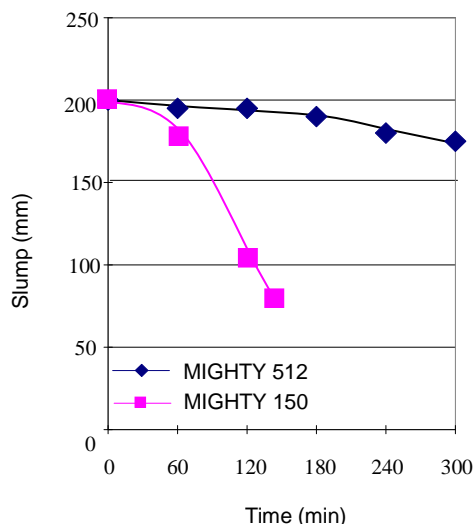
Sand : Crushed Sand

Gravel : Crushed Stone

Specification of Concrete Slump : 180-230 mm

Admixture : MIGHTY 150, MIGHTY 512

Fig1. The slump behavior in the presence of each admixture



MIGHTY 500 series have various products line to meet your requirement. Please feel free to ask us.