

MEGAD PC-SD

High Range Water Reducing Agent for Slump Retention

Description

MEGAD PC-SD is aqueous carboxylic acid copolymer as slump retention type water reducing agent. MEGAD PC-SD has a special functional group in the molecular structure, and is particularly effective in producing concrete that provide longer working time at workplace and finishing operations without losing early strength.

Fields of application

- Retention of concrete workability over a long time
- Consistent ultimate strength of concrete
- Flexible dosage
- Reduction of bleeding
- Reduction of aggregate separation

Features and Benefits

- High slump retention
- Maintaining the workability
- Reduced aggregate separation
- Controlled rheology

Properties

	MEGAD PC-SD	Remarks
Appearance	Colorless or Pale yellow	Visual
Solid Content(%)	Min. 50	130°C, 30min
Viscosity(cPs)	Max. 1000	20°C, Brookfield #2, 60rpm
Specific Gravity	1.10±0.05	20°C
pH	4.0±1.0	20°C, Undiluted

MEGAD PC-SD

Performance

The dosage of MEGAD PC-SD allows it to be used from normal to high-range water reducer.

[Concrete test]

• Concrete Mix ratio (kg/m³)

	W/C (%)	S/a (%)	W	OPC	S	G	AD
PLAIN	65.6	48.0	210	320	859	942	-
MEGAD PC-SD	54.8	47.0	175	320	810	925	2.24

*Condition: Cement 3.15 / Sand: 2.60 / Gravel: 2.63 / AD(C * 0.7%, solid content 20%)

• Concrete test result

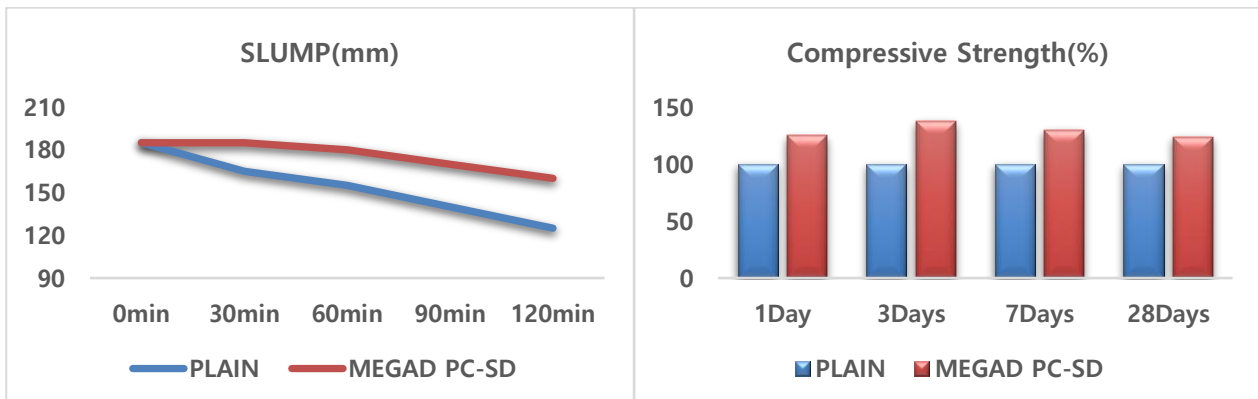
	SLUMP(mm)					Air(%)	
	0min	30min	60min	90min	120min	0min	120min
PLAIN	185	165	155	140	125	1.2	0.9
MEGAD PC-SD	185	185	180	170	160	4.5	3.7

*Test method: KS F 2560:2014

• Compressive strength test result

	Compressive Strength (%)			
	1 Day	3 Days	7 Days	28 Days
PLAIN	100	100	100	100
MEGAD PC-SD	125	138	130	124

*Test method: KS F 2560:2014, Concrete curing temperature at 20°C



MEGAD PC-SD

Recommendation for use

For best workability at the job site, 20~30% of dilution in the dosage is recommended. Please add defoamer if requires more stability.

MEGAD PC-SD may give higher air content in concrete. To control the air content, we recommend to add 0.1~0.2% of defoamer before use. MEGAD PC-SD can be used independently or can be mixed by MEGAD PC-WR to adjust the required performance.

Handling and Storage

Keep containers closed when not in use. Protect from direct sunlight and from heat. When frozen, it can be used after heated, but please check its functions before use. MEGAD PC-SD has a minimum shelf life of 1 year, but depending on the storage conditions it may be greater. See the Safety Data Sheet for detail information on safety-related issues.

Packaging

- Packaging: 220kg Drum / 1MT IBC Tank / Bulk (Flexi Tank)

This information and all technical advice are based on the best of our knowledge and experience. However nothing herein is to be guaranteed product properties whether expressed or implied. The customer should test and inspect the goods to determine the applicability of such information or the suitability of any products for their own particular purpose.