

MEGAD PC-WR

High Range Water Reducing Agents

Description

PC-WR is aqueous carboxylate copolymer as high-range water reducing agent. It is specially modified and patented copolymer which shows high water reduction ratio, excellent fluidity and workability performance. PC-WR is very effective in producing excellent concrete in a wide range. PC-WR is usually used in the production of high fluidity or self-leveling concrete, high strength concrete and precast concrete.

Fields of application

- Normal, mid-range and high-range water-reducing admixture
- Concrete which requires critical workability and setting time
- Concrete which needs high flowability, increased stability, high early and final strength and improved durability
- Self-leveling concrete
- Precast concrete

Features and Benefits

- Flexible dosage from normal to high-range water-reducing admixture
- Excellent early strength development
- High ultimate strength
- Controlled rheology

Properties

	PC-WR	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

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Performance

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

[Concrete test]

• Concrete Mix ratio

	W/C (%)	S/a (%)	W	OPC	S	G	Slump (mm)	Air (%)	AD
PLAIN	67.2	48.0	215	320	840	921	185	1.2	-
MEGAD PC-WR	50.0	47.0	160	320	853	974	190	4.5	2.24

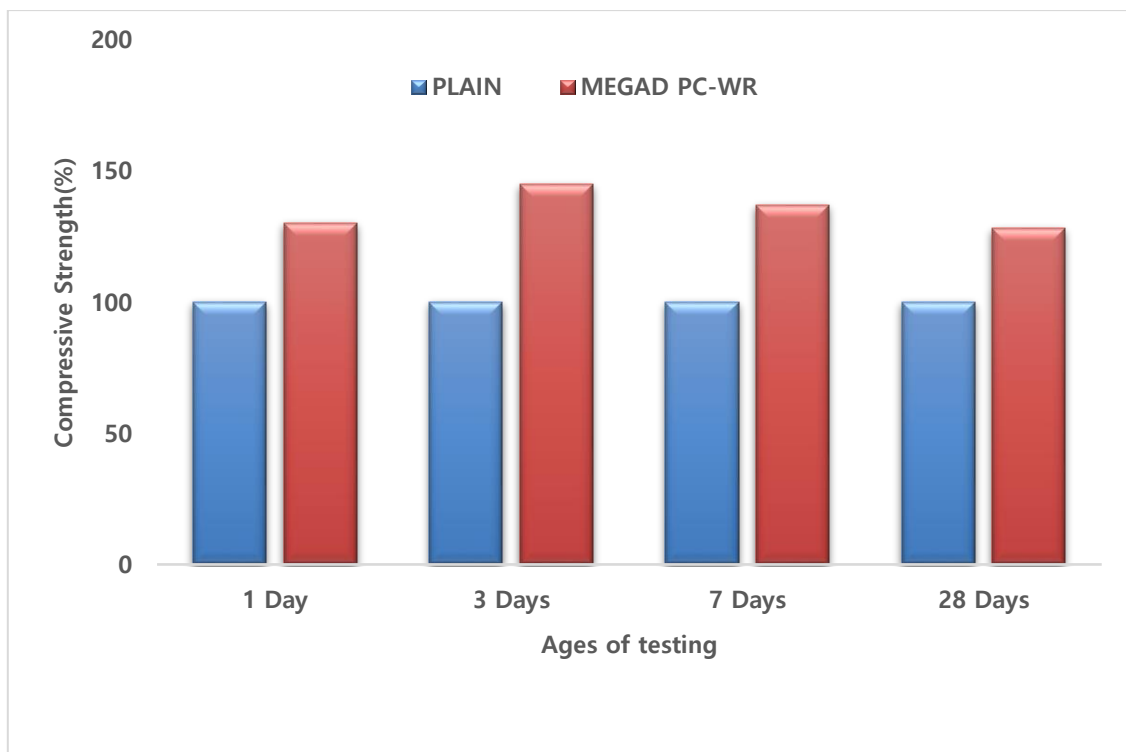
(kg/m³)

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

• Compressive strength test result

	Compressive Strength(%)			
	1 Day	3 Days	7 Days	28 Days
PLAIN	100	100	100	100
MEGAD PC-WR	130	145	137	128

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



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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.

PC-WR may give higher air content in concrete. To control the air content, we recommend to add 0.1~0.2% of defoamer before use. PC-WR can be used independently or can be mixed by PC-SD to adjust the slump retention 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 being heated. Please check its functions before use. PC-WR 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.

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