

Technical Data Sheet
(POWERCON 100)

POWERCON 100
Superplasticizer, High Range Water Reducing Agent

1. Name of Chemical: Sodium Salt of Naphthalene Sulfonate

2. Properties

- Improved workability or water reduction in concrete
- Improved compressive strength of concrete
- Improved the durability of concrete

3. Applications

- Ready mixed concrete
- Underwater concrete
- Self-compacting concrete
- High strength concrete for dam, bridge and high-rise building
- Concrete secondary products such as precast concrete and concrete pile
- Fly ash concrete, blast furnace slag concrete
- Lightweight concrete

4. Technical Specification

Appearance	POWERCON-100	
	Dark Brown Liquid	Light Brown Powder
Solid Content	Min. 39 %	Min. 92 %
SO ₄ ²⁻ Content	Max 1.0 %	Max. 2.5 %
pH	8.0 – 10.0	8.0 – 10.0
Specific Gravity	1.19 – 1.23 g/ml	-
Bulk Density	-	0.65 – 0.75 g/cc
Cl ⁻ Content	Max. 0.1 ppm	Max. 0.1 ppm
Ionic Nature	Anionic	Anionic
Solubility	Clear in Water	Clear in Water

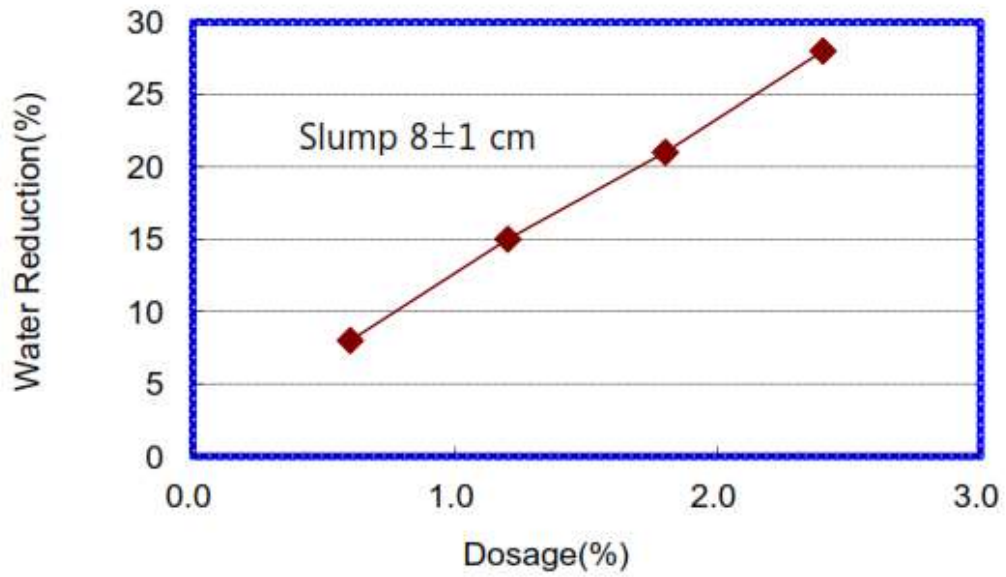
5. Handling and Storage

Keep containers closed when not in use.

See the Material Safety Data Sheet for detail information on safety-related issues.

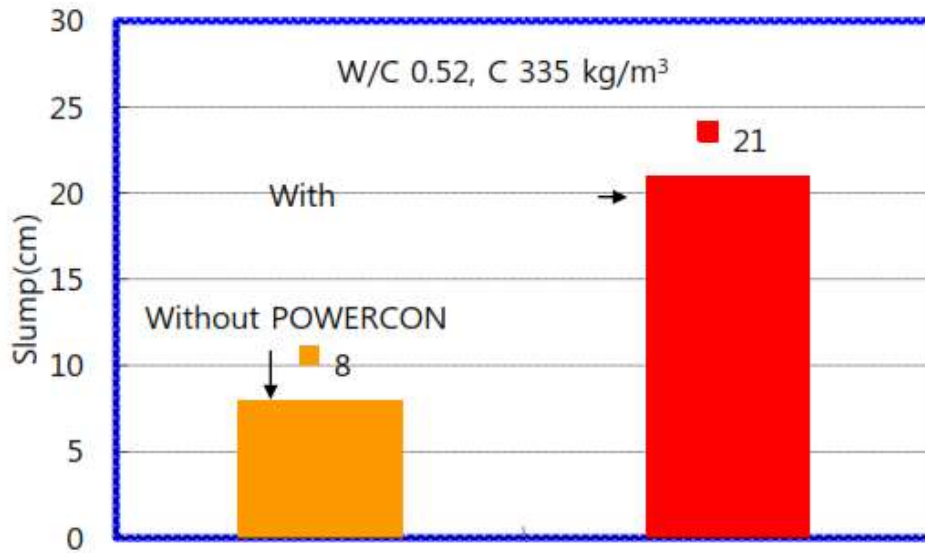
6. Performance of POWERCON 100

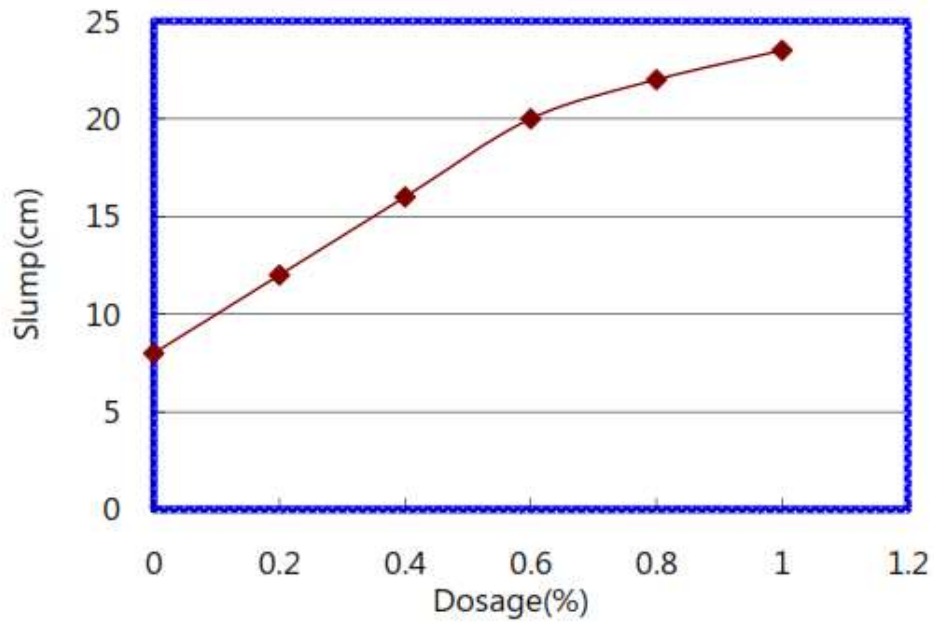
(1) Effect of POWERCON on Water Reduction



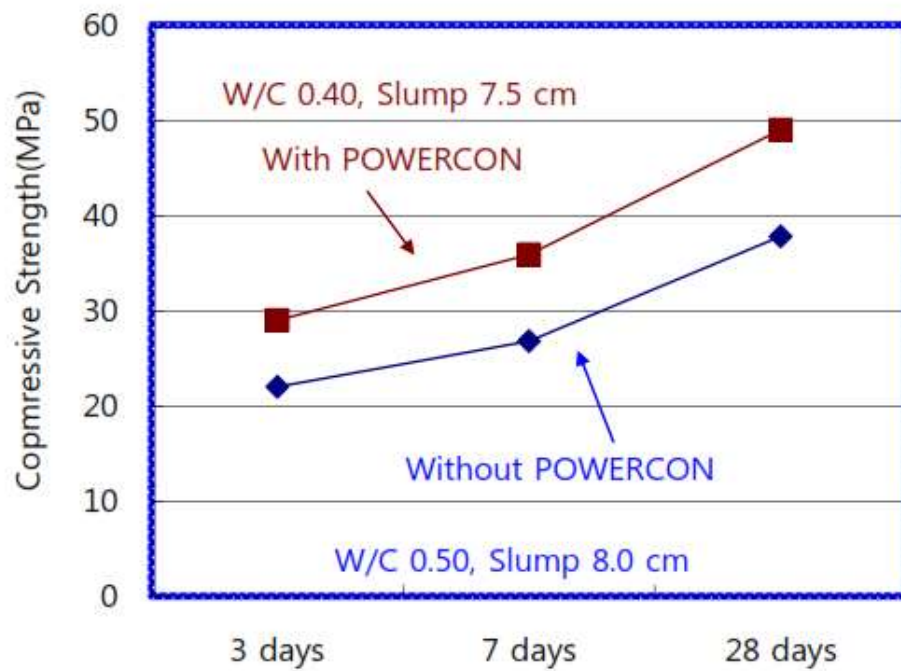
(2) Effect of POWERCON on Fluidity

(2) Effect of POWERCON on Fluidity





(3) Effect of POWERCON on Water Reduction



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