

# MEGAD T1

## High performance Water Reducing Agent

### Description

MEGAD T1 is a water-soluble polycarboxylate based copolymer. MEGAD T1 helps to manufacture a durable concrete excellent in water reducing effect, good workability in small unit quantity, and excellent in slump retention (aging change) performance.

### Fields of application

- For high durability and flowing concrete
- For large use of micro powders (Fly ash, Silica fume and slag powder)

### Features and Benefits

- It has a suitable viscosity and it has excellent resistance to separation of concrete material
- Reduction of bleeding and concrete settlement
- Reduced shrinkage and shrinkage of the unit quantity
- Good controllability of Slump Loss improves workability and water tightness

### Properties

	MEGAD T1	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 MEGAD T1 allows it to be used from normal to high-range water reducer.

### [Concrete test]

#### • Concrete Mix ratio (kg/m<sup>3</sup>)

	W/C (%)	S/a (%)	W	OPC	S	G	AD
PLAIN	64.1	49.0	205	320	871	917	-
MEGAD T1	50.0	47.0	160	320	866	987	2.24

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

#### • Concrete test result

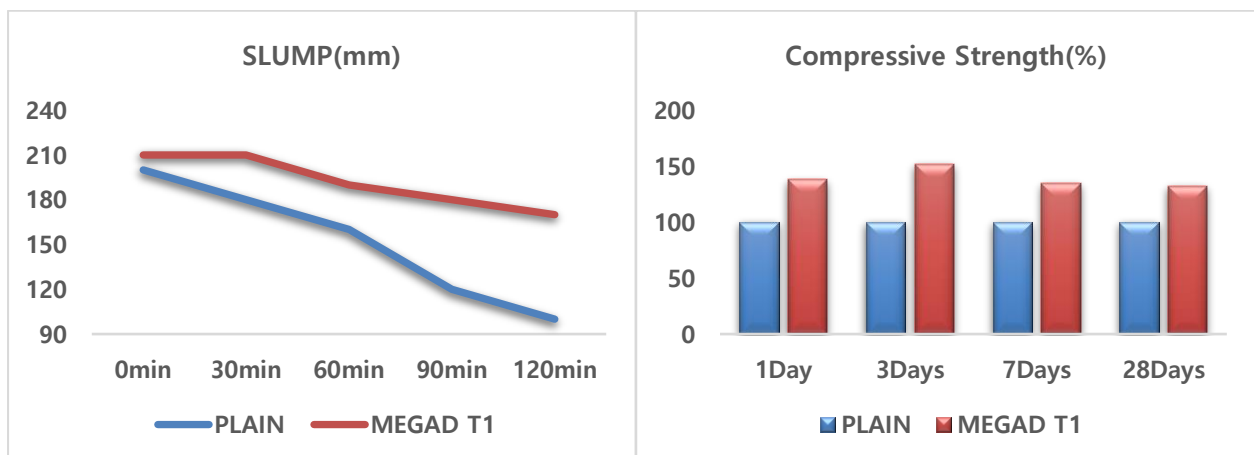
	SLUMP(mm)					Air(%)	
	0min	30min	60min	90min	120min	0min	120min
PLAIN	200	180	160	120	100	1.9	1.7
MEGAD T1	210	210	190	180	170	4.7	4.0

\*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 T1	138	152	135	132

\*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. MEGAD T1 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 T1 can be used independently or can be mixed by PC-SD to adjust the required performance.

## Handling and Storage

Keep containers closed when not in use. Protect from direct sunlight and from heat. When the product is frozen, it can be used after melting at a temperature 50 °C or below. Please check its functions before use. MEGAD T1 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 / 1.1MT IBC Tank / 21MT in 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.