

MEGAD T3

High performance Water Reducing Agent

Description

MEGAD T3 is a slump-retention type water reducing agent that is polycarboxylate based copolymer. MEGAD T3 has a special functional group in the molecular structure. MEGAD T3 helps produce concrete that have a high workability for a long time and finish operation with continuous early strength.

Fields of application

- Flexible quantity
- Reduction of bleeding
- Consistent ultimate strength of concrete
- Retention of concrete workability over a long time

Features and Benefits

- Flexible degrees of flow
- Consistent workability
- High slump retention
- Reduced aggregate separation

Properties

	MEGAD T3	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

Performance

The dosage of MEGAD T3 allows it to be used from normal to high-range water reducer.

MEGAD T3

[Concrete test]

• Concrete Mix ratio

(kg/m³)

	W/C (%)	S/a (%)	W	OPC	S	G	AD
PLAIN	64.1	49.0	205	320	871	917	-
MEGAD T3	53.1	47.0	170	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

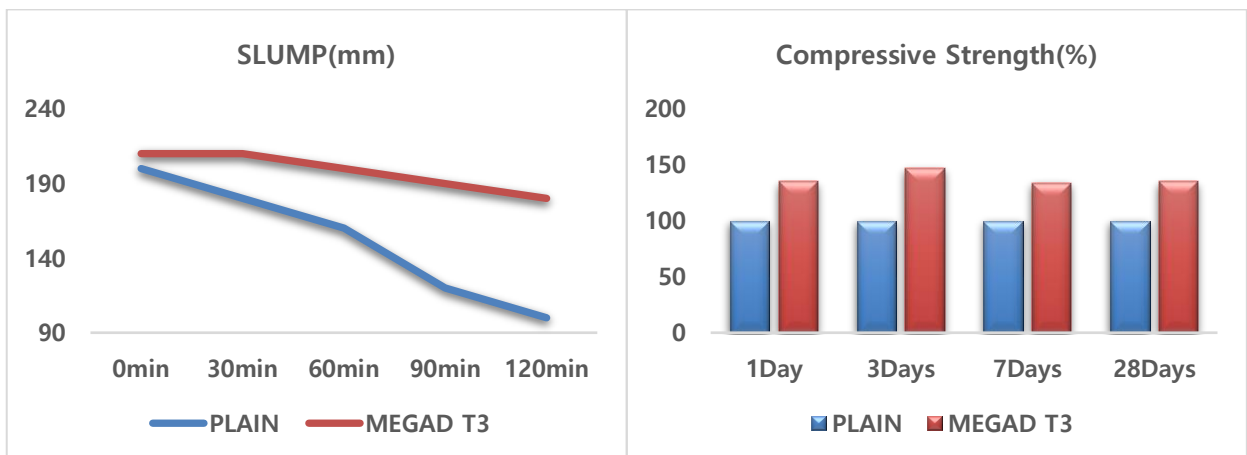
	Slump (mm)					Air (%)	
	0min	30min	60min	90min	120min	0min	120min
PLAIN	200	180	160	120	100	1.9	1.7
MEGAD T3	210	210	200	190	180	4.5	4.1

*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 T3	135	147	134	135

*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 T3 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 T3 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 T3 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.