

MNC—P2

ASTM C 494, Type F; ASTM C 1017

High-effective Pumping Aid



Description

MNC-P₂ (high-effective pumping agent) has components of β -naphthalene sulfonate formaldehyde high polycondensate as fluidization, air entraining, retarding, and intensifying. It has good adaptability to cement variety, less air entraining, remarkable water-reducing and intensifying effect. It can prevent concrete from being isolated or blocked in the pumping pipeline, thus improving its pumping performance. This product complies with the national standard of first-class concrete pumping agent in building material industry (JC473-2001).

Uses

This product has good compatibility to variety of cements, including the cement with fluorine gypsum or anhydrite as its setting time control agent. It is applied to premixed & pumpable concrete, commercial ready-mixed concrete, bulky concrete, armored concrete, self-leveling and self-compacting concrete, etc.

MNC-P₂ has no rust effect on reinforcing metal bar. It can be used to make C20-C80 levels fluidized concrete and high strength concrete for various projects.

Features & Advantages

1. Appearance: Light brown powder or dark brown aqueous solution.
2. Vertical pumping distance is more than 100 meters and horizontal pumping distance is more than 500 meters under the ambient temperature range 0°C ~40°C.
3. Stable chemical performances and non-poisonous, odorless, non-inflammable and no crystals in winter.
4. The water reducing rate exceeds 25%. It may be used to make C80 concrete.
5. Freedom from chloride interference with little shrinkage occurring.
6. High performance on retardation with 10 hours delayed coagulation, which can reduce premature hydration heat effectively.
7. No penetration and segregation, good moisture insulation. Gas cannot be exhausted in 2 hours turning over to be anti-bending, modulus of elasticity, water proof and anti-infiltration.
8. Compatible with varieties of cement. Preferably blended with superfine mineral blending materials.

Concrete Admixtures

Specifications

Items	Criteria	Actual Results	Items	Criteria	Actual Results		
Slump increased, %	≥100	122	Water bleeding rate, %	≤90	78		
Slump retention value, mm	30min	≥150	197	Corrosiveness	None	None	
	60min	≥120	182	Compressive strength, %	3 day	≥90	118.5
Difference in setting time (min)	Initial setting time	—	+235		7 day	≥90	134.0
	Final Setting time	—	+240		28 day	≥90	122.3
Air content, %	≤4.5	2.1	Shrinkage, %	28 day	≤135	105	

Note: Standard addition rate: 0.75% of cement amount.

Package, Transportation and Storage

1. Powder: Woven bag with plastic liner. Net weight: 25+/- 0.13 kg.
2. Cautions should be taken to prevent packages from being torn by sharp-ended objects while transported. When being contaminated by high humidity or moisture in case of leakage, it can be prepared in prescribed ways for further use without surrendering any effect.
3. It should be stored in a dedicated warehouse that is well ventilated and dry. It remains effective for one year. After the expiration, it can still be used if the testing results fall within the acceptable standard range.

Testing Data Sheet

Concrete Strength Grade	Concrete Mixing Rate (kg/m ³)						Compressive Strength (Mpa)		
	Cement (42.5)	Gravel	Sand	Pumping Aid	Fly Ash	Water	3 day	7 day	28 day
C10	150	830	1130	4.0	120	170	9.1	13.1	19.2
C15	170	830	1140	5.0	110	170	10.5	15.3	24.8
C20	230	790	1100	6.0	100	165	12.2	17.7	29.6
C25	250	780	1100	7.0	100	165	16.7	23.8	37.5
C30	280	740	1100	10.0	100	165	21.0	21.5	42.0
C35	320	720	1100	10.5	100	165	24.0	37.4	52.2
C40	350	720	1068	11.0	95	165	27.0	37.1	54.3
C45	380	720	1045	12.0	90	165	29.0	38.2	56.8
C50	420	700	1040	16.8	120	165	31.0	39.4	61.0
C60	480	670	1000	18.8	120	170	33.2	49.8	71.5

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