

ATEK-PC

Polycarboxylic Acid series Water Reducer (AE) and superplasticizer

Description

ATEK-PC is high-performance water reducer and superplasticizer composed of poly-carboxylic acid copolymer. It has greater workability and superior slump retention.

Use

- For super fluidity concrete.
- For lower heat producing concrete.
- For super high strength concrete.
- For long-distance delivery/pour.
- For high quality concrete such as atomic power plant, highway, express railroad, skyscraper, subway, bridge, harbor and airport.

Features

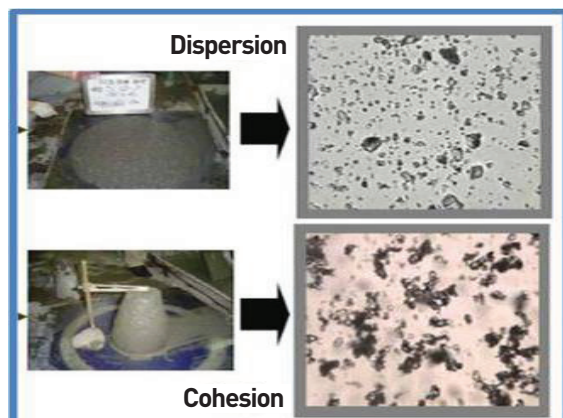
- High water reducing power & excellent dispersibility.(over 20-40% of water reducing effect)
- Excellent slump retainment increases work efficiency and confidence of the product (maximum 3 hours).
- High water reducing power enables high durability and high strength concrete.
- No set retardation phenomenon and lower air entrapment changes enable high quality concrete making.

Technical data

Appearance	Brownish liquid
Specific gravity (20°C) (15%~30%)	0.900~1.180g/ml
pH value	2.0~6.0
Thermal stability	5°C to 50°C
Dosage	C×0.1~3.0%

Storage

Store in warm place preventing from freezing. Contents should not be exposed for a long time.



Application

(General application mix design) -High strength concrete

WC (%)	S/a (%)	Unit q'ty(kg/m3)				S.P (Cx%)	Remark
		C	W	S	G		
34	41.5	480	163	712	1009	1.1	ATEK-PC(20%)

Slump loss(cm)					Air loss(%)				
right after	30 min	60 min	90 min	120 min	right after	30 min	60 min	90 min	120 min
23	24	24	24	23	5.4	5.4	5.2	5.1	4.8

High fluidity concrete

W/C (%)	S/a (%)	GV (%)	VP/MG (%)	Unit q'ty(kg/m3)								
				W	C	S	G	FA	SP	AD	TA	AE
37	53	287	1.257	185	200	831	791	100	200	6.35	0.25	0.04

Slump flow(cm)			O shape funnel flow down test(sec)	Filling height difference in the Box
0 min	60 min	90 min		
66.5	66.5	64	15	0

Caution

ATEK-PC is possible to use 0.1 ~3.0% of cement weight however it is advisable to adjust using amount through intra laboratory test because its characteristics vary depending on using material and its mixing. For further information, see the Material Safety Data Sheet.

Packing

ATEK-PC is available in 200L PE drums and 1000L PE tanks.

