

ECONEX® AN-88

AE Water Reducer - Standard Type

Introduction

ECONEX® AN-88 is a liquid type admixture based on naphthalene sulfonate condensates. It improves the quality of concrete by reducing W/C ratio, and also gives good workability.

Properties

- Appearance : Dark brown liquid
- Specific Gravity(20°C) : 1.20±0.05
- pH(20°C) : 6.0±1.0
- Chloride Content : Nil

Advantages

- Improves workability and reduces bleeding
- Reducing W/C ratio
- Increases compressive strength
- Increase durability
- Works good with Fly ash, Slag, Silica fume

Usage

- Standard structure
- Standard use in ready mix concrete
- Prestressed concrete structures
- Secondary concrete
- Mass concrete

Dosage

- 0.5~1.0% wt. % of total binder
- The dosage range is applicable to most concrete mixtures using typical concrete ingredients. However, variations in job conditions and concrete materials, such as silica fume, may requires dosages outside the recommended range.

Test results

[Ordinary Concrete Lab Test]

Mix design

	W/C (%)	S/a (%)	Unit Weight(kg/m ³)				AD (Cx%)
			W	C	S	G	
Plain	61.7	44.2	185	300	834	1064	-
I	51.3	42.7	154	300	790	1072	0.5
II	49.3	42.7	148	300	796	1081	1.0

Materials C : OPC(S.G. 3.15) S : River Sand (S.G. 2.62)
G : Crushed Gravel (S.G. 2.65) AD : ECONEX AN-88

Test results

	Plain	I	II	
Dosage(%)	-	0.5	1.0	
Water Reduction(%)	-	16.8	20.0	
Slump(cm)	8.0	8.0	8.0	
Air(%)	1.5	4.2	4.1	
Bleeding(%)	100	52	48	
Setting Time (Hr : Min)	Initial	7:10	7:40	7:50
	Final	9:20	9:45	9:50
Compressive Strength (% of concrete)	3day	100	121	135
	7day	100	119	126
	28day	100	119	122
Elongation(%)	100	101	101	

Packaging

- 200 liter drum
- 1,000 liter drum
- Flexitank



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