

# MIGHTY AE-02

## Air-entraining Admixture

KaO

### Characteristics

- Develops stable air bubbles in concrete
- Improves concrete workability

### Recommended Dosage and Usage Method

- Required dosage to increase air volume by 1%: 0.0021 (C×%)
- Dose into mixing water
- When using in mixed cement or in compositions with fine mineral powders or high cement to sand ratios, air-entraining performance is affected. Consider increasing dosage in such cases.

### Experimental Results

#### ● Materials

Cement : Ordinary Portland cement (Density: 3.16)

Fine agg. : Chiba prefecture sand (Density: 2.62 / FM: 2.51)

Coarse agg. : Kochi prefecture crushed limestone (Density 2.71/FM:7.05/Actual: 58.6%)

Admixture :MIGHTY 3000S (High performance AE water reducer)

#### ● Experimental Conditions

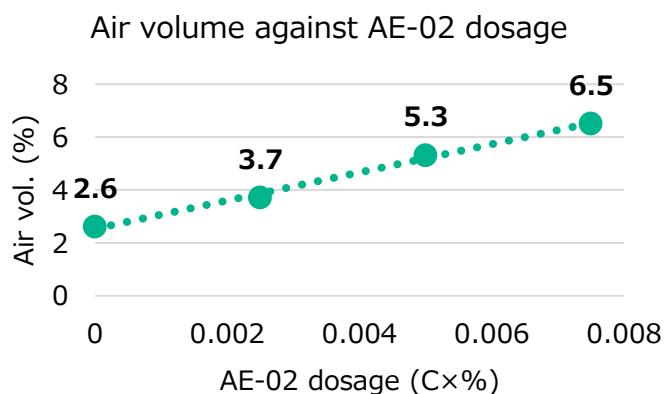
【Mix Design】

W/C (%)	s/a (%)	Unit Quantity (kg/m <sup>3</sup> )				3000S dosage (C×%)
		Water	Cement	Fines	Coarses	
55.0	48.1	163	296	880	981	1.0

【Mixing Method】 Mixing for 90s after material charging (forced action mixer)

#### ● Experimental Results

AE-02 dosage (C×%)	Slump (cm)	Air vol. (%)	Concrete temp. (°C)
Blank	18.0	2.6	20.5
0.0025	19.9	3.7	20.5
0.0050	20.5	5.3	20.5
0.0075	21.4	6.5	20.5



## Product Information

- |                                      |   |
|--------------------------------------|---|
| ● Main component                     | Sodium polyethylene alkyl ether sulfate |
| ● Appearance                         | Pale yellow translucent liquid          |
| ● Density (g/cm <sup>3</sup> , 20°C) | 1.020~1.060                             |
| ● Applied Specifications             | JIS A 6204 AE Admixture (Type I)        |

## Packaging

Bulk / 1000kg container / 200kg drum / 18kg can

The information and recommendations in this publication are to the best of our knowledge reliable. However, nothing herein is to be construed as a warranty or representation. Users should make their own tests to determine the applicability of such information or the suitability of any products for their own particular purpose. For more enquiries, please contact the following.

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