

MIGHTY 100

KaO

Powder-type High Performance Water-reducer

Features

MIGHTY 100, with its main ingredient of sulfonated naphthalene formaldehyde salt condensate, is a powder-type anionic surfactant with exceptional water reducing performance in mortar, concrete applications. Its principal active ingredient is the same as that of MIGHTY 150; and boasts superb performance as well as compatibility with a range of materials and versatility at varying ambient temperatures.

Experimental Test Results

<Experimental conditions> W/C=35%, S/C=100%

Cement (C) : Domestic ordinary Portland cement (700g; SD=3.16)

Sand (S) : River sand (700 g; SD=2.50, FM=2.73)

Water (W) : Tap water (245 g; SD=1.00)

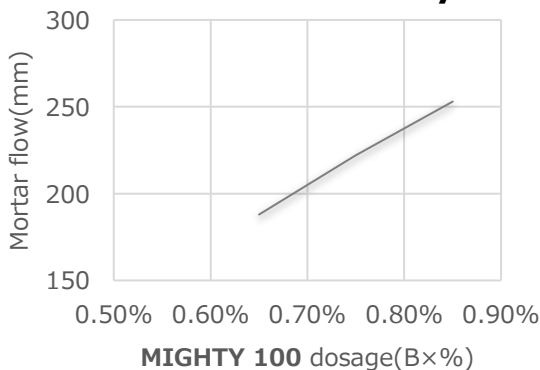
<Test method: In accordance with ISO 9597/679>

Mixing : C+S+MIGHTY 100→62rpm×15 s→Water added→62rpm×120s

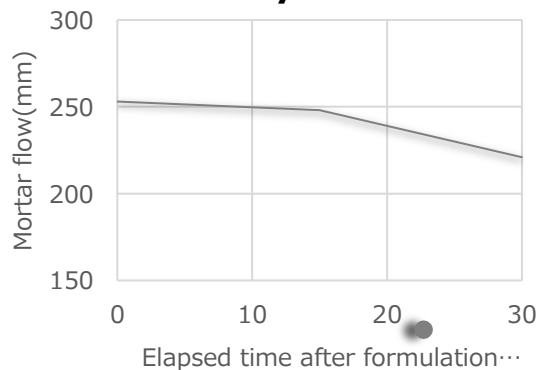
Mortar test : Mortar flow was measured in accordance with the method described in JIS R 5201 as a measure of fluidity

Compressive strength : 24h/20°C

Initial fluidity



Fluidity Retention



24h strength development

23.5 N/mm²

Properties

Composition

... Sulfonated naphthalene formaldehyde salt condensate

Appearance

... Yellow/brown powder

pH (5% soln ambient)

... 8 – 10

Moisture (%)

... ≤10

Cement flow (C×0.48%, 18~22°C)

... 155 – 195

Concrete air volume (%)

... ≤2

*Substances harmful/corrosive to rebar are not incorporated.

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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