

Water-reducing agent for enhanced fluidity under vibration

Flowability and material segregation-resistance enhancing admixture

Background / Issues

Problem: Excessive construction noise caused by vibration during concrete casting

- ◆ Noise reduction can be achieved with concrete with higher flowability
- ◆ However, excessive flowability causes material segregation
- ◆ Self compacting concrete can be considered; but results in higher costs and poorer quality control due to increase in powder content

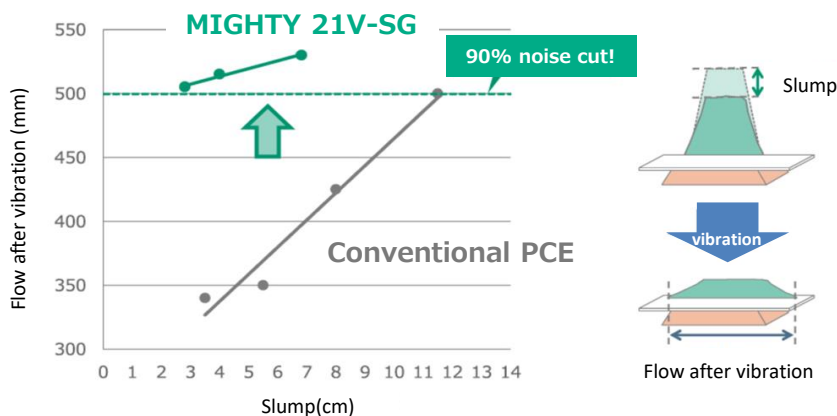


Test Results

<Mix Design and Test Results>

W/C	S/a	Unit Weight (kg/m ³)					Admixture	Slump(cm)	
		W	C	S	G	Admixture		After slump test	After Vibration
33.0	48.0	145	440	862	941	3.1	MIGHTY 21VS-G	3.0	23.5
							Conventional PCE	3.5	17.0

With **MIGHTY 21V-SG**, concrete flows smoothly and fills the mold without gaps/voids under vibration; but stops completely when left to settle thereby reducing material separation.



Vibration intensity can be reduced due to the high flowability during vibration casting, improving the working environment.

Product Information

- Main components: Polycarboxylic acid co-polymer and special thickener
- Appearance: Yellow-brown liquid
- Density: (g/cm³, 20°C) ···· 1.055 - 1.095
- Does not contain harmful substances that corrode reinforcing steel.

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