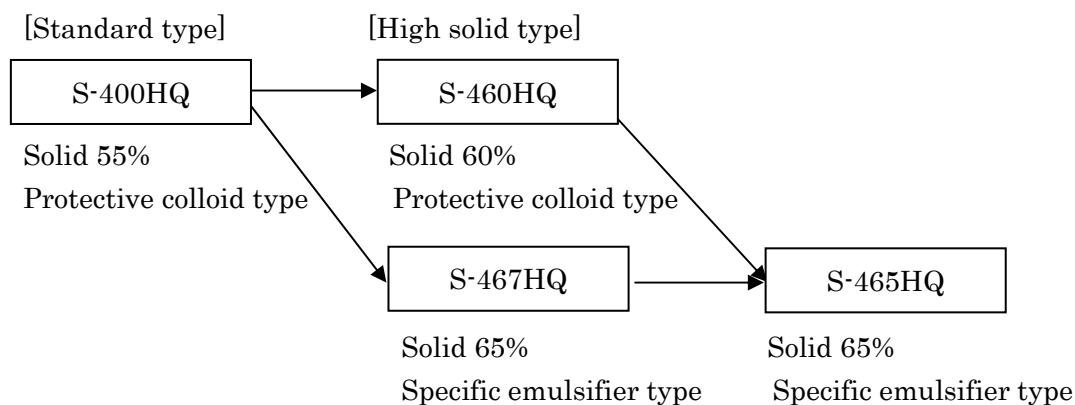


Sumikaflex 465HQ

Type:	Ethylene Vinyl acetate Copolymer Emulsion	
Properties:	Sumikaflex 465HQ is a high solid type emulsion improved grade of cohesion for S-467HQ. Similar to S-467HQ, it excels adhesive for each base materials, initial adhesive, water resistance, and heat resistance creep. It is also promising to have various usages to exploit high cohesion.	
Main application:	Adhesives for all Cement modifier Paint vehicle	
Physical properties :		
Appearance		Milky white
Solid (%)		65 ± 1
Viscosity (mPa·s)		300 – 3000
pH		4 – 7
Ave. Particle size (µm)		1.0
Density (g/cm ³)		1.08
MFT (°C)		0
Particle charge		Nonionic
Machine stability		Good
Tg (°C)		0
Film strength (MPa)		9.6
Film elongation (%)		750

< Technical Information of Sumikaflex 465HQ >

1. Grade positioning



2. Emulsion properties

	S-465HQ	S-467HQ
Appearance	Milky white	Milky white
Solid content (%)	65 ± 1	65 ± 1
Viscosity (mPa·s)	300 – 3000	2000 – 6000
pH	4 – 7	4 – 7
Ave. particle size (μm)	1.0	0.8
Density (g/cm ³)	1.08	1.08
MFT (°C)	0	0
Particle charge	Nonionic	Nonionic
Mechanical stability	Good	Good
Tg (°C)	0	0

3. Film properties

(1) Film tensile strength

Item		S-465HQ	S-467HQ
Dry	Elongation (%)	750	790
	Strength (MPa)	9.6	5.8
Wet	Elongation (%)	1000	840
	Strength (MPa)	2.0	2.0

Test method

- Thickness of film : 0.15 mm
- Shape of film : Dumbbell No.3
- Dry film strength : 23°C × 65%RH, measured after dried for 7 days
- Wet film strength : Dipped film in water for 24 hr at 23°C,
measured at wet condition
- Measurement speed : 500 mm/min

(2) Film water drop test

	S-465HQ	S-467HQ
Whitening point (min)	6	> 120

Test method

Foam film (thickness is 0.15 mm) on the slide glass at room temperature (Dried under condition at 23°C × 65%RH). The slide glass is on the 8 point Chinese character of newspaper. Measure the time till that character can't be read when puts one drop of water on the film.

(3) Film water resistance

		S-465HQ	S-467HQ
Water resistance	Elusion (%)	3	1
	Absorption (%)	15	12

Test method

- Thickness of film: 0.15 mm
- Water resistance: Dipped film in water for 4 days at 23°C

(4) Polymer thermal flow property

