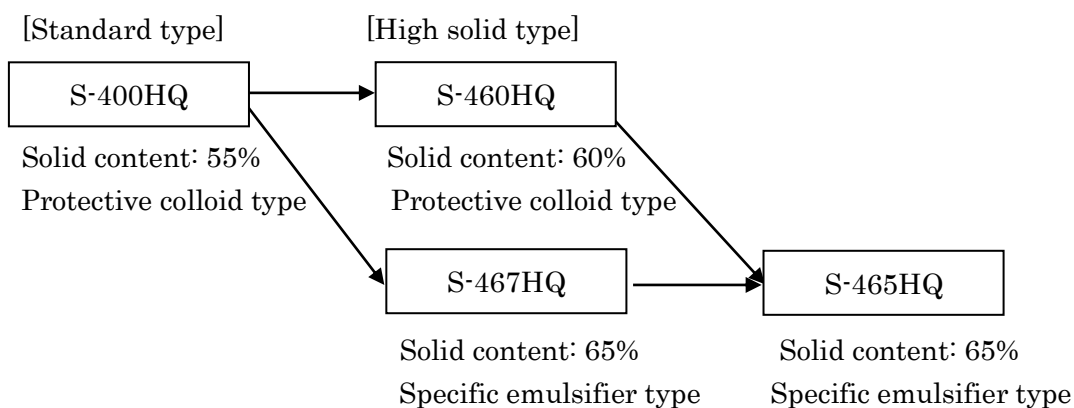


SUMIKAFLEX 465HQ

Type:	Ethylene Vinyl acetate Copolymer Emulsion
Properties:	SUMIKAFLEX 465HQ (S-465HQ) is a high-solid type emulsion improved grade of cohesion properties compared to 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 content (%)	65 ± 1
Viscosity (mPa·s)	300 – 3000
pH	4 – 7
Ave. Particle size (μm)	1.0
Density (g/cm³)	1.08
MFT (°C)	0
Particle charge	Nonionic
Machine stability	Good
Tg (°C)	0
Tensile strength (MPa)	9.6
Tensile 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 hours 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: 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 until that character cannot be read after placing 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

