

### Base Resin Emulsion

Grade	Characteristics	Applications			Emulsion Properties						Film Properties		
		Adhesive	Civil	Paint	Solid Contents (%)	Viscosity *1 (mpa·s)	pH	Protective Colloid	Ave.particle size (μ) *2	MFT (°C)	Tg (°C)	Strength (MPa)	Elongation (%)
50	Low viscosity, Viscosity modifier For paper	●	●		54-56	1,500-3,000	4.5-6.0	PVA	0.5	0	0	5.0	1000
55N	Medium ethylene content	●	●	●	54-56	1,000-5,000	4.5-6.0	PVA	0.5	0>	-10	2.5	800
59	High ethylene content For general purposes	●	●	●	55-57	1,000-4,000	4.5-6.5	PVA	0.8	0>	-18	2.5	1,000
60	For general purposes Workability	●			55-57	3,700-5,000	4.5-6.0	PVA	0.5	0	0	4.0	950
65	High solid content, Low viscosity Initial bonding	●			64-66	3,000-7,000	4.5-6.0	PVA	0.9	0	0	5.0	950
70	medium viscosity	●			55-57	2,000-5,000	4.5-6.0	PVA	0.4	0	0	3.5	1,000
75	medium-High viscosity	●	●		55-59	2,000-6,000	4.5-6.0	PVA	0.5	0>	-10	2.5	1,100
80	High viscosity	●	●		55-59	15,000-21,000	4.5-6.0	PVA	0.5	0	0	5.5	850
81	High viscosity	●	●		55-57	10,000-15,000	4.5-6.0	PVA	0.5	0	0	5.5	850
82	Bonding with porous materials like as PVC, Paper, Wood	●			55-57	6,000-10,000	4.5-6.0	PVA	0.5	0	0	5.5	850
90	Mortar durability		●		55-57	3,000-5,000	4.5-6.5	PVA	0.4	0	1	7.0	700
100	For general purposes Low viscosity	●	●	●	54-56	1,000-2,000	4.5-6.0	PVA	0.4	0	-3	5.0	900

\*1 Brookfield viscometer, BM model, 30rpm, at 30 °C

\*2 Turbidity method

### Blended Emulsion

Grade	Characteristics	Applications			Emulsion Properties				
		Adhesive	Civil	Paint	Solid Contents (%)	Viscosity *1 (mpa·s)	pH	Protective Colloid	
NA500	Medium viscosity	●			54-59	15,000-21,000	4.5-6.5	PVA	particularly effective in bonding between PVC films/olefin films and plywood
NA610	High viscosity	●			53-58	35,000-45,000	4.5-6.5	PVA	particularly effective in bonding between PVC films/olefin films and plywood

\*1 Brookfield viscometer, BM model, 12rpm, at 30 °C