

◆ Solvent-based Dispersing agent (Pigment dispersing agent)

Environmental-responsive	Product	Form	Active Ingredients(%)	Primary constituent / Solvent	Acid Value	Amine Value	Characteristics	+ (Good) / ++ (Best)							Packaging
								Acrylic	Urethane	Epoxy	Polyester	Alkyd	Fluoro/Silicone		
	FLOWLEN DOPA-15B	Liquid	30	Cationic acrylic polymer/Xylene	—	10	Has effects on wetting and dispersion of carbon black and premium organic pigments.	+	++	++	+	+	+	16kg can	
✓	FLOWLEN DOPA-15BHFS	Liquid	30	Cationic acrylic polymer/Aliphatic hydrocarbon/Propyleneglycol monomethyl ether acetate/n-butanol	—	10	Xylene-free type from FLOWLEN DOPA-15B.	+	++	++	+	+	+	15kg can	
✓	FLOWLEN DOPA-17HF	Liquid	30	Cationic acrylic polymer/PGMEA	—	13	Has effects on wetting and dispersion of carbon black and premium organic pigments. In particular, exhibits marked increases in the blackness of carbon black. Improves flooding through post addition. HAPs-free type.	+	++	++	+	+	+	16kg can	
	FLOWLEN DOPA-22	Liquid	40	Cationic acrylic polymer/Xylene/Methyl isobutyl ketone	—	17	Has effects on wetting and dispersion of carbon black and premium organic pigments. In particular, exhibits marked increases in the blackness of carbon black. Improves flooding through post addition.	+	++	++	+	+	+	16kg can	
✓	FLOWLEN DOPA-35	Liquid	30	Cationic acrylic polymer/Cyclohexanone	—	13	Has effects on wetting and dispersion of carbon black and premium organic pigments. In particular, exhibits marked increases in the blackness of carbon black. Improves flooding through post addition.	+	++	++	++	+	+	16kg can	
✓	FLOWLEN DOPA-100	Liquid	100	Mixture of oligomer and polycarboxylic acid	15	135	It is excellent in wet dispersion effect of carbon black, organic pigment and inorganic pigment, It is also effective for dispersing matte silica and preventing settling.	+	++	++	++	+	+	18kg can	
✓	FLOWLEN G-700	Liquid	100	Modified polymer contained carboxylic acid	60	—	Can be used with any paint type, whether water-based or solvent-based. Has effects on wetting and dispersion of inorganic and organic pigments. In particular, has effects on improving dispersion stability of silica for delustering of solvent-based paints.	++	+	+	++	+	+	18kg can	
✓	FLOWLEN G-820XF	Liquid	50	Poly amide ester derivative/Solvent naphtha/Isobutyl alcohol	25	10	Adsorbs to the surface of pigments and prevents re-flocculation in pigments.	+	++	++	+	+	+	16kg can	
✓	FLOWLEN GW-1500	Liquid	100	Modified polymer contained carboxylic groups	55	—	An anionic polymer dispersant for water-based paints. It's also used with solvent based systems. It works well organic and inorganic pigments, reduces mill-base viscosity and improves gloss of the paint film. It has anti-flooding effect.	+			+		++	18kg can	
	FLOWLEN AF-1000	Liquid	52	Unsaturated oleylcarboxylic acid/Xylene	130	—	Well-suited to prevent flooding, floating, and silking in toning paints. Silicone-free.	++	+	++	+			16kg can	
	FLOWLEN AF-1005	Liquid	52	Modified silicone/Unsaturated oleylcarboxylic acid/Xylene	110	—	Exhibits anti-flooding without inhibiting the hydrophilia of hydrophilic paint.	++	+	++	+		+	16kg can	
✓	FLOWLEN KDG-2400	Granular	100	Nitrogen-containing graft polymer	35	35	Has effects on wetting and dispersion of carbon black and premium organic pigments.	+	+	+	++	+		15kg box	
✓	FLOWLEN D-90	Liquid	100	Nonionic surfactant	—	—	Exhibits anti-flooding without inhibiting the hydrophilia of hydrophilic paint. Superior anti-flooding, anti-floating, and anti-silking effects in toning paints in particular.	++	+	+	+	+		18kg can	

Additive Dosage(%)

As a solid,
3-6% for inorganic pigments,
15-30% for organic pigments,
20-60% for carbon black

