

Technical Information of INT 8605 Synthetic Resin

INT 8605 synthetic resin is alicyclic linear oligomer with low hydroxyl value, which includes carbonyl group. It is soluble in almost organic solvents and exhibits excellent wetting and dispersion to the paint. It can also improve water resistance, adhesion, gloss and hardness and so on of coating. It is a kind of excellent multifunctional additive to coating/printing.

Specification

Property	Data	Test Method
Appearance	Yellowish, transparent solid, no obvious mechanical impurity after dissolution	Naked eye
Softening point(°C)	100-110	ISO 4625-1:2004
Color Gardner ^[1]	< 1	ISO 4630-1:2004
Acid value(mgKOH/g)	< 3	ISO 2114:2000
Hydroxyl value(mgKOH/g)	50-70	DIN 53240-2:1998
Density(g/cm ³)	1.15±0.05	ISO 1183-1:2004(E)B
Kinematic viscosity ^[2] (mm ² /s)	30-50	GB/T 1660-2008
Ford cup 4 viscosity ^[3] (s)	15-25	ASTM D1200

[1] The resin is 50% (mass fraction) solution in butyl acetate and ethanol, they account for 50% and 50% respectively.

[2][3] 50% resin solution of ethanol, solution temperature remains 25°C when viscosity is detected.

Solubility

INT 8605 synthetic resin is soluble in almost common paint solvents such as aromatic hydrocarbons, alcohols, ketones, esters and so on, but insoluble in water. Its solubility in nonpolar solvents such as mineral oil, aliphatic hydrocarbon, alicyclic hydrocarbon is limited, which should be paid attention.

Compatibility

INT 8605 synthetic resin is compatible with most coating/printing resins including:

Alkyd resin	Phenolic aldehyde resin	Vinyl chloride copolymer
Cellulose nitrate	Chlorinated rubber	Acrylic ester resin
Cellulose acetate-butyrate	Epoxy resin	Polyurethane
Polyamide resin	Rosin	Phthalate plasticizer

Application

It shows better solvent release when INT 8605 synthetic resin is applied in formulation of coating/printing, it can availably improve the water resistance, gloss, adhesion, hardness, fullness and so on of coating. It shows excellent wetting and dispersion to pigment and filling.

Storage

INT 8605 synthetic resin must be stored in dry and cool place, the period of validity is one year, it also can be used after one year if examined again and conformance to requirements.