Product Data _____ Amino Modified Silicone Fluid TSF4700

TSF4700 is an amino modified silicone fluid useful for anti-blocking agent of amino-alkyd paints and acrylic-urethane paints.

KEY FEATURES

- Good compatibility to a wide variety of paint resins
- Gives excellent slip property to coating film surface
- Gives excellent ant-blocking property to coating film surface
- Reactive capability with paint resins

APPLICATION

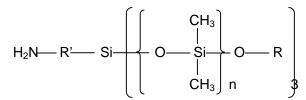
- Anti-blocking additive for amino-alkyd paints and acrylic-urethane paints
- Slipping agents for amino-alkyd paints and acrylic-urethane paints
- Anti-static agent for plastics

TYPICAL PROPERTY DATA

PROPERTIES			
Appearance		Clear-pale yellow	
Viscosity (25°C)	mm²/s {cSt}	50 {50}	
Specific gravity (25°C)		0.97	
Refractive index (n_D^{25})		1.406	
Amino equivalent	g/mol	3,000	

Typical property data values should not be used as specifications

CHEMICAL STRUCTURE



APPLICATION EXAMPLE (PAINT ADDITIVE)

FORMULATION

	Parts
Amino-alkyd resin M-7651-HV [*]	100
Thinner (Xylene/IPA=85/15)	10
TSF4700	0.2
Curing agent (10% HCL methanol solution)	20

* Beckosol: Dainippon Ink and Chemicals, Incorporated

APPLICATION CONDITION

Test specimen:	Printed plywood	
Coater:	Bar coater No. 20	
Cure condition:	Air dried 10min and cured at 60°C for 20min	

RESULTS

			TSF4700	Blank
Compatibility with r	esin		×~∆	-
Transparency of solution		0	-	
Cellotape tearing of	ff test ^{*1}		4	1
	Min	g/24mm	125	500
Tearing off force ^{*2}	Max	g/24mm	255	735
	Ave	g/24mm	200	660

^{*}1 Indicates the times of the tests (repeated tearing off tests at the same place with 10cm×2.4cm Nichiban Cellotape) until over 3 and more points (below 1mm) of breakages appear.

^{*}2 10cm×2.4cm Nichiban Cellotape is stuck to the applied test specimen with the pressure of 2kg gum roller (0.5mm/s). Tearing off force is measured with Instron tension measurement equipment (rate of tension: 30 cm/min).

SOLUBILITY

Soluble	Toluene, Mineral sprits, Ethanol, Methyl ethyl ketone, Isopropanol, Dimethyl silicone fluid
Insoluble	Methyl cellosolve, Water, Liquid paraffin

INSTRUCTION FOR USE (PAINT ADDITIVE)

- Typical amount is 0.05 to 2.0 % to paint by weight.
- Toluene, xylene, butanol or methyl ethyl ketone can be used as a diluent.

HANDLING AND SAFETY

- Wear eye protection, protective gloves at all times when working with this product.
- In case of skin contact, wash skin with soap and plenty of water. If irritation occurs, contact a physician.
- Adequate ventilation must be maintained in the work place at all times.

STORAGE

- Store in a dark, cool place out of direct sunlight.
- Keep out of the reach of children.

PACKAGING

- 1kg can available in case of 10
- 15kg can available

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