

Product Data

Silicone Acrylic Varnish TSR171

TSR171 is a silicone modified acrylic varnish for high quality paint. TSR171 has chemical resistance originated in acrylic resin and heat resistance, water resistance and weather resistance originated in silicone resin.

KEY FEATURES

- ◆ Excellent flexibility
- ◆ Excellent water resistance

TYPICAL APPLICATIONS

- ◆ Protective coating of heating equipments, stoves, household gas ranges ovens, incinerators, high-temperature devices
- ◆ Protective coating required weather resistance

TYPICAL PROPERTY DATA

PROPERTIES		
Appearance		Light yellow, transparent
Specific gravity (25°C)		0.98
Viscosity (25°C)	Pa·s {P}	0.35 {3.5}
Solids content	%	50
Acid Value	KOH mg/g	8.0
Solvent		Trimethylbenzene / Xylene / n-Butanol

Typical property data values should not be used as specifications.

CHARACTERISTICS OF THE PAINT FILM

Test condition

Paint:	Titan oxide (R-820)/resin solid content = 4/6 (by weight)	
Test piece:	Bondelite (L-40) treated steel plate (SPC-1, 0.5t)	
Painting method:	spray coat	
Paint thickness:	40 - 50µm	Drying condition: 150°C, 30min

MECHANICAL PROPERTIES

(JIS K 5400)

PROPERTIES		
Hardness	Pencil	HB
	Sword rocker	35

DuPont Impact test (500g, 1/2") cm	40-50
Cross cut test	100/100

CHEMICAL RESISTANCE (Time until abnormality in the paint film is observed)

CHEMICALS	TIME h
10% H ₂ SO ₄	100
10% NaOH	170
Petroleum benzine	Above 500
5%NaCl (30°C)	Above 500

ATTENTION

Gellation of the varnish may be induced by mixing with a large amount of pigment such as zinc oxide, zinc powder, antimony oxide or cobalt green. Pay attention to this during use.

HANDLING AND SAFETY

- ◆ Wear eye protection and protective gloves as required while handling the product.
- ◆ Avoid any source of ignition due to flammability.
- ◆ Maintain adequate ventilation in the work place at all time.

STORAGE

- ◆ Store in a cool and dry place out of direct sunlight.
- ◆ Keep out of the reach of children

PACKAGING

- ◆ 1kg can available in case of 10
- ◆ 17 kg can available by the can

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