

- **Applications**

- Leather treatment
- Fabric softener
- Paint , Ink (only SI2020Z)

- **Main properties**

- Impart slip for Leather
- Give excellent slip and flexibility
- Suitable leather treatment and Softener for fabric treatment

- **Features & Benefits**

- High molecular weight silicone emulsion
- Good water/ Solvent dilution stability (SI5007Z, SI2020Z)

- **Product list**

Product code	Active content (%)	Viscosity [25 °C] (cP)	Emulsifier type	Features
SI5005Z	80	100,000 ~ 500,000	Non-ionic	Give excellent slip and flexibility Suitable leather treatment Softener for fabric treatment
SI5007Z	87	100,000 ~ 300,000	Non-ionic	Good dilution stability in Water/ Solvent Give excellent slip and flexibility
SI2020Z	80	200,000 ~ 1,000,000	Non-ionic	Improve mar resistance Impart leveling, wetting and gloss

- **How to use & Handling precautions**

- Textile/leather coating agent is a non-ionic emulsion of ultra-high molecular weight polydimethylsiloxanol.
- To obtain better workability, it should be diluted by water up to 20 ~ 60 % solid.
- It is suitable for application by padding, spraying, and coating.



Slip Agent

Confidential

Item	Test method	SPEC (TDS)	Target	SI5005Z	SI5007Z	SI2020Z
Appearance	Visual, 25 °C	-	White viscous liquid	White viscous liquid	White viscous liquid	White viscous liquid
Particle Size	PSA	-	3.6µm	5.4 µm	5.9 µm	5.7 µm
NV(%)	150 °C * 30min	77 ~ 82	81.18%	81.6	87.14	80.25
Viscosity (cP)	Helipath Stand, Brookfield, #93, 2.5rpm, 25 °C, 10min	200,000 ~ 700,000	246,400	179,200	154,000	430,000
Dilution stability Test	Solvent (10times dilution)	Toluene	1 day	Immediately	1 day	-
		DMF	3 days	Immediately	3 days	3 days
		Ethanol	1 day	Immediately	Immediately	1 day
Properties after coating	Gloss		Good	Bad	Good	Good
	Scratch resistance (Taber, CS10)		Good	Bad	Good	Good

Scratch Resistance Test (Water Type)

Confidential

1) Coating condition

- Leather : Double skin
- Drying condition : 120 °C, 10min
- Water based coating solution
 - Water 67.5%/Polyurethane liquid 30%/CX-100(Aziridine) 2%/
 - Target product 0.5%

2) Test condition

- Equipment : Abrasion tester CS10F
- 1kg weight
- Test requirements : 3000 times