

Silicone Emulsions

Slip Agent

- ✓ Leather treatment
- ✓ Fabric softener



Anti-Foamer

- ✓ Petrochemical industry
- ✓ Coating and printing inks



Water Repellent

- ✓ Mineral substrates such as brick, clay, stone, concrete



Release Agent

- ✓ Automobile
- ✓ Furniture/shoe
- ✓ Release agent
- ✓ Lubricant



Silicone Emulsion

Type	Product code	Active Content(%)	Viscosity(%)	Particle Size (μm)	Emulsifier Type	Application
Slip agent	SI5005Z	80	100,000~500,000	1~15	Non-ionic	Textile/Leather Coating
	SI5007Z	87	100,000~300,000	1~10	Non-ionic	Weather strip coating additional agent
	SI2020Z	80	100,000~1,000,000	1~10	Non-ionic	Textile/Leather Coating, Paint , Ink
Anti-foamer	SI3000Z	15	1,000~3,000	5 ~ 30	Non-ionic	General Industry
	SI3001Z	25	1,500~3,500	-	Non-ionic	
	SI3200Z	30	1,000~3,000	-	Non-ionic	Textile, High Temperature & High Pressure
	SI3903Z	30	1,000~5,000	7~15	Non-ionic	chemical manufacturing, detergent water and effluent treatment
	SC3100Z	100	400~1,500		Non-ionic	Self-emulsifying High Temperature & High Pressure
Water repellent	SI1200Z	7	MAX.100		Anionic	Construction(SI1200Z, SI1400Z) Mineral/Glass Wool (SI1478Z, SI1479Z)
	SI1400Z	40	10~100		Anionic	
	SI1478Z	40	<3,000	< 1	Non-ionic	
	SI1479Z	42	1~1,000		Non-ionic	
Release agent	SI4000ZR	30	1~100		Non-ionic	General Industry - Mold release agent - polish - Plastic powder
	SI4000Z	35	1~100		Non-ionic	
	SI4001Z	60	MAX.2,000		Non-ionic	
	SI4001ZR	60	MAX.2,000		Non-ionic	
	SI4002Z	64	100~3,000		Non-ionic	
	SI4008Z	64	100~3,000		Non-ionic	
	SI4100Z	11	28~36sec(포드컵)		Anionic	Tire bladder
	SI4112Z	2	MIN.100		Non-ionic (and) Anionic	
	SI4120Z	13	600~1,200		Non-ionic (and) Anionic	

Slip Agent

- **Applications**

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

- **Main properties**

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



- **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 additive for weatherstrip coating agent
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.

Anti-foamer

● Applications

- Textile, leather and paper applications.
- Petrochemical, chemical and agricultural industries.
- Coating and printing inks. Waste treatment. Plastics applications.

● Main properties

- Excellent de-foaming (quick kill) and anti-foaming (long-term effect) properties and have proven useful in a wide range of applications and conditions.
- Easily dispersed in water and foaming media.
- Perform over wide pH range.
- Effective over wide temperature range.



● Product list

Product code	Active content (%)	Viscosity [25°C] (cP)	pH	Emulsifier type	Features
SC3100Z	100	400~1500	-	Non-ionic	Excellent dispersibility and durability Excellent immediate effect Effective in extreme pH environments SC3100Z is self-emulsifying antifoam at High Temperature & Pressure SI3200Z is High temperature & Pressure textile antifoam
SI3000Z	15	1,000~3,000	6.0~8.0	Non-ionic	
SI3001Z	25	1,500~3,500	6.0~8.0	Non-ionic	
SI3200Z	30	1,000~3,000	5.0~7.0	Anionic	
SI3903Z	30	1,000~5,000	3.5~4.4	Non-ionic	

● How to use & Handling precautions

- Antifoam is water dilutable, making it easy to formulate with.
- Especially suitable for soluble antifoam of the system.
- The user should determine the best concentration and application method on a small scale before production.
- Dilution occurs in the long-term storage is separate.
- Dilution of the product for long-term storage is required to put thickener additives.

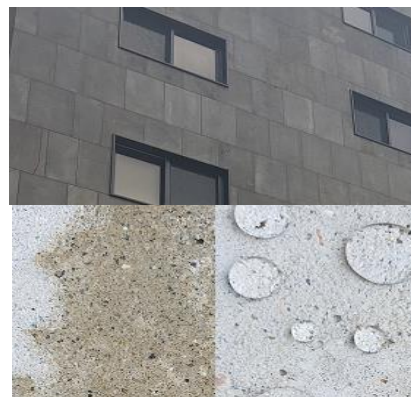
Water Repellent

- **Applications**

- For use on mineral substrates such as brick, clay, stone, concrete and mortar that require water repellency

- **Main properties**

- Wonderful surface repellency
- Penetrating and breathable
- Protecting against penetrating damp
- Easy to use
- Reducing spallation due to freeze-thaw and efflorescence, thereby increasing the life of the substrate



- **Product list**

Product code	Active content (%)	Viscosity [25°C] (cP)	pH	Emulsifier type	Features
SI1200Z	7	Max.100	11.0~11.5	Anionic	Water dilutable building materials to achieve a water-repellent surface. ※ Construction (SI1200Z, SI1400Z) ※ Mineral/Glass Wool (SI1478Z, SI1479Z)
SI1400Z	40	10~100	11.0~12.0	Anionic	
SI1478Z	40	<3,000	6~8	Non-ionic	
SI1479Z	42	1~1,000	4~7	Non-ionic	

- **How to use & Handling precautions**

- Water repellents are used in a wide variety of applications because of their intermediate viscosity and water-dilutable, stable forms.
- As water repellent, these emulsions may be applied in low concentrations by Brush, Roller and spray.
- Film Thickness - Recommended twice for 8 microns per time.
- Do not use in places where water is pooled for long periods of time or areas under water pressure.
- Remove any dust, humidity, oil and other contaminants from surface to be coated

Release Agent

- **Applications**

- Automobile, Furniture and shoe polish
- Release agent, Lubricant



- **Main properties**

- Emulsion stable to storing, dilution
- Efficient release agent(low amounts required)
- Designed for easy formulation with other release aids
- Good gloss with minimum smear to polish formulations
- Compatible with most other silicone emulsions, if blending is desired

- **Product list**

Product code	Active content (%)	Viscosity [25°C] (cP)	pH	Emulsifier type	Features
SI4000Z	35	1~100	6.5~8.5	Non-ionic	Excellent stability of emulsifying Good releasability SI4000ZR, SI4001ZR is MIT Free type SI4008Z has higher preservative content than SI4002Z
SI4000ZR	30	1~100	6.5~8.5	Non-ionic	
SI4001Z	60	MAX.2,000	6.0~8.0	Non-ionic	
SI4001ZR	60	MAX.2,000	6.0~8.0	Non-ionic	
SI4002Z	64	100~3,000	6.0~8.0	Non-ionic	
SI4008Z	64	100~3,000	6.0~8.0	Non-ionic	
SI4100Z	11	28~36 sec.	6.0~7.5	Anionic	Tire bladder coating agent
SI4112Z	2	MIN.100	6~8	Non-ionic, Anionic	
SI4120Z	13	600~1,200	6~8	Non-ionic, Anionic	

- **How to use & Handling precautions**

- Release agent is water dilutable, making it easy to formulate with.
- Improving a good adhesion by forming flexible coating surface after applying release agent.
- No risk of fire and low stimulation because there is no flammable solvent in product
- SI4100Z contains reactive ingredients. Keep the product away from sparks and/or flame.