

# Special coating agent

## Applications

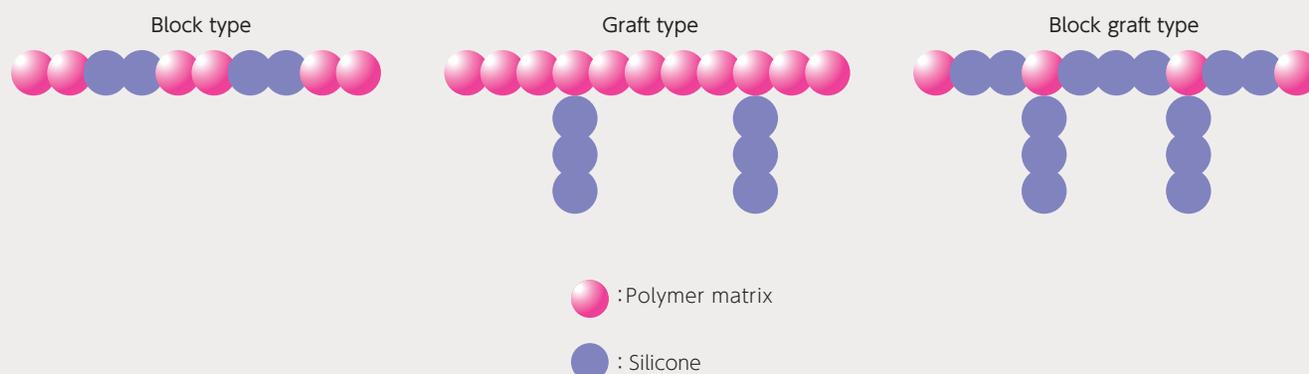
- Coating agent for functional films
- Coating agent for imparting surface properties to substrates
- Release agent
- Water repellent agent

## Characteristics

- SP series : silicone-based copolymer.
- Capable of forming a coating layer that has enhanced silicone surface properties, after coating / drying / curing the solution consisting of general solvents.
- Various physical properties, such as non-adhesion, low-friction coefficient, chemical resistance, electrical insulation properties, water repellency, heat resistance, cold resistance and oil repellency.
- Capable of improving the mechanical strength based on polymer matrix, and of reducing "bleeding" because of the copolymerization.
- Capable of choosing any of silicone contents and copolymer resins, and of performing formulation design according to application and purpose.

## Structure

Three copolymer structures



## Representative Products

Product name	Solid content(%)	Viscosity(mPa·s)	Solvent composition	Surface slipperiness( $\mu$ k)	Combined use of crosslinking agent
SP-2105	20.0 $\pm$ 1.5	2,000~5,000	MEK/Toluene	0.030	Yes
SP-2420	20.0 $\pm$ 1.5	2,000~5,000	MEK/Cyclohexanone	0.080	Semi-one-component type

\*A strong coating can be formed even without a crosslinking agent, but further curing can be expected by using one.

## Dedicated Crosslinking Agent

Product name	Solid content(%)	Viscosity(mPa·s)	Solvent composition	Content	Note
D-70	50.0 $\pm$ 1.5	50~300	Ethyl acetate	Polyisocyanate	Fast - setting