SILTECH
Sealants and Adhesives

SUPRA-SIL SPRAY

TECHNICAL DATA SHEET

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SUPRA-SIL SILICONE SPRAY is a silicone oil based preparation with a strong and long lasting release action. It is supplied in aerosol cans, which makes it possible to spray an extremely fine mist. This ensures that the entire surface being treated, particularly in complex moulds with deep incisions and undercuts, is covered with a thin and even film of release agent. This is a significant advantage, as even a very thin silicone oil film has an excellent release action. SUPRA-SIL Silicone spray contains a 10% silicone component. One application provides long lasting release action, the duration being dependent on the design and construction of the mould and, above all, on the type of material being used for the moulding. The active ingredients in SUPRA-SIL Silicone Spray have dielectrically properties. As it is extremely resistant to heat, the film does not crack when the release agent is applied to a heated mould. SUPRA-SIL cannot be used at temperatures above 350°C.

ADVANTAGES

- SUPRA–SIL Silicone spray is ready-to-use silicone oil in an aerosol can.
- It can be applied quickly, easily and evenly without the use of other equipment. No brush or cloth is needed for application.
- The product does not contain solvents.
- The aerosol uses an environmentally compatible propellant and does not contain CFC's

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TYPICAL APPLICATIONS

SUPRA–SIL Silicone Spray is used in the processing of plastics of the types listed below:

- Thermoplastics
- PVC
- Polyolefins (polyethylene, polypropylene)
- Polystyrene copolymers (e.g. Styrene – acrylonitrile, styrene butadene, ABS) Cellulose estrs
- Polyamides
- Polymethyl methacrylate
- Thermoplastic polyurethane elastomers
- Thermosetting plastics Phenol resins Melamine resins
- Urea resins
- Unsaturated polyester resins

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SILICONE & TECHNICAL PRODUCTS (PTY) LTD

ISO 9001 QSCert · ISO 14001 QSCert · ISO 45001 QSCert · FSSC 22000 QSCert · CSR 26000 QSCert

Cape Town +27 (0)21 534 9055
Johannesburg +27 (0)11 392 2426
Durban +27 (0)31 701 3481
Website: www.silicone.co.za

APPLICATIONS (CONTINUED)

SUPRA-SIL has proved effective in other fields of application:

• It can be used to improve the surface gloss and scratch resistance of plastic moulding. In case of certain plastics care must be taken as the propellant in the aerosol may cause stress cracking.

• It can be used to improve the slip properties of thermoplastics being processed by extrusion (e.g. pipes and profiles) and to create a smooth surface. The release agent is sprayed onto the die lips.

• When machining (drilling, filing, cutting and sawing) plastics and other materials (e.g. stainless steel), this product can be used to ease the passage of the tools through the material.

• It can be used to promote good slip action between articles, e.g. plastic/plastic or plastic/other material.

• When stitching synthetic leather and textiles particularly fabrics laminated with Moltopren the use of this release agent on the platform improves the slip action.

• When ironing interlined garment sections, e.g. the collars and cuffs of synthetic blend shirts, the sole of the iron is treated with this release agent to prevent it from sticking.

• It can be used to treat paper and cardboard punching tools.

• It can be used as a lubricant for moving plastic automotive components. If the product is applied to chrome components, their ability to repel water and dirt is increased.

SUPRA-SIL has also been used successful in the processing of rubber.

• Anti-spatter welding spray
• Upholstery application
• Glazing industry
• Dash/tyre shine
• General lubrication

APPLICATION INSTRUCTIONS

The thickness of silicone oil film is determined by the duration of the spraying. Only short spraying times are necessary. Th e aerosol should not be held too close to the mould or the surface being treated. The further away it is held, the finer and more even the silicone oil film. As far as working conditions allow, the release agent should be sprayed from a distance or about 30 – 50cm. If this is not possible, the spraying time should be reduced to a minimum.

REMOVING SILICONE OIL FILMS

Surfaces bearing traces of the release agent are difficult to glue, laminate, paint, flock, etc. If one of these finishing te chniques is to be used, it is better not to use a silicone oil release agent. Otherwise the surfaces must be cleaned thoroughly with solvents. Care should be taken that any plastic being cleaned is resistant to the solvent used. Standard commercially available solvent s can be used although it has been found that a solution of 60 parts ethanol (spirit), 40 parts water and a small amount of washing liquid is also suitable. Traces of silicone can be even more effectively removed by dipping effected articles in a solution of 100 PBW solvent (e.g. Petrol) and 7 – 8g Aerosol for 10 – 20 seconds. The solvent is allowed to evaporate to an area with adequate exhaust ventilation. The Aerosol is also rinsed off by dipping the articles in pure solvent. Finally they are washed off once more with water.

HANDLING AND SAFETY

The spray mist is highly flammable; SUPRA–SIL – Silicone Spray should therefore only be used in well – ventilated rooms away from any ignition sources. The aerosol can, should not be exposed to heat, e.g. direct sunlight.

PACKAGING

SUPRA-SIL Silicone Spray is available in 400ml cans.

PRODUCT WARNING

The information supplied is believed to be reliable. As we do not have any control over the processing or application of the product we cannot guarantee the results to be obtained. Users assume all risks and liability resulting from the use of this product and must confirm the suitability thereof by conducting their own tests. No guarantee is expressed or implied.

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