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Composition Mixture of pigments and fillers in a solution of a silicone modified alkyd resin in organic solvents.

Characteristics and use The paint is determined for anticorrosive protection of metal objects made of steel, iron, cast iron (new or well prepared), continuously under condition of temperature up to 500 ° C in the interior or protected exterior.

Application area Chimneys, furnace doors, stoves, fireplaces, barbecues, exhaust pipes, boilers, etc.

Shades 0199 - black (at temperatures above 300 ° C may be slight changes in color), 0910 - silver

Physical properties	Flow time	shade 0199: 100 – 140s / cup Ford Ø 4mm shade 0910: thixotropic
	Weight solids	≥ 62 %
	Volume solids	45 %
	Flash point	> 25 °C
	Density of product	ca 1280 kg/m ³

Emission limits	VOC: 0.45 – 0.50 kg/kg of hardened mixture	TOC: 0.36 – 0.41 kg/kg of hardened mixture
	This product is for professional use only. Not for DIY.	

Properties of dried coat	Hiding power	degree 1
	Gloss / 60°	< 8
	Hardness / Persoz	up 8 % after 24 hours

Drying time	Surface temperature	23 °C
	Dust free	45 min
	Touch free	2 h
	For manipulation	8 h
	Recoated	24 h
	Full cured	24 h after reaching temperature 200 °C
	Dry film thickness DFT	45µm

Spreading capacity	Wet film thickness WFT	100 µm
	Dry film thickness DFT	45 µm
	Theoretical spreading capacity	7.5 m ² /kg

Thinning TELSOL BR 5, S 6005 – brush (max. 5 % thinning)
TELSOL SP 1, S 6001 P – spraying (max. 10 % thinning)

Surface preparation The surface must be clean, dry, degreased, free of rust and dust, mechanically cleaned. First of all the surface must be degreased by means of suitable agent (e.g. technical benzine P 6402, acetone P 6401 or, if it is possible, warm pressurized water with detergent). For removing of residues of various salts it is necessary then to rinse the surface with clear water. Rough and sticky impurities must be removed manually or mechanically (grinding, scraping). Possible rust may be removed also manually or mechanically (metal brushes, grinding discs).
Formerly coated surfaces must be cleaned, degreased and without old non-adhesive paints. It is recommended for providing compatibility of a new paint with the old one to perform a reference coating (painting) of surface - ca 1 m².

Application conditions Stir the paint properly with a mechanical stirrer before use so that there will be no sediment on the bottom. To thin and filter if it necessary.
Minimal air temperature for application is 5 °C, temperature of painted surface must be 3 °C above dew point. Temperature and relative humidity must be measured in proximity of painted surface. The surface temperature must not be higher than 40 °C. Relative humidity must not be higher than 75 %. Lower temperature and higher humidity during an application and a drying and high thickness of applied coats

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markedly slow down drying and hardening of the coat. The film dries under normal conditions, however, until the full curing (baking) the film is susceptible to mechanical damage.

Workflow TELSIL S 500 is applied to the prepared substrate. Do not apply on hot or warm surfaces. It is applied in one layer. If it is necessary to apply more layers, each layer is baked separately. Baking temperature is 200 °C for 30 minutes. The optimal dry film thickness of one coat is 40 – 50 µm.

Application Brush, roller (velour), Airless/AirMix spraying, conventional spraying

Application data **Data for conventional spraying**
 Spraying gun e.g. EST 115, EcoGun 116, EcoGun 246
 Nozzle according to desired capacity 1.4-2.0; Air pressure 2.5 – 3 atm.

Data for airless spraying Airless/AirMix (tested on the device EcoPump VP 55 445, 64:1 gear ratio, in combination with air assist spraying gun EcoGun 2100 (DÜRR))

Device	Nozzle	Pressure on nozzle	Thinning
AirMix	0.011 inch (0.28 mm)	17 Mpa (170 atm) air assist 1.6 atm	3 %
AirMix	0.013 inch (0.33 mm)	16 Mpa (160 atm) air assist 1.4 atm	3 %
Airless	0.011 inch (0.28 mm)	25 Mpa (250 atm)	3 %
Airless	0.013 inch (0.33 mm)	24 Mpa (240 atm)	3 %

Recommended filter of spraying gun yellow 100/149 (mesh/ µm), spraying angel 20 – 60°. It is not recommended using free adjustable nozzle.

Handling Read the instructions in the Safety Data Sheet before use and follow all safety instructions and regulations. The product contains organic solvents. Follow basic hygiene rules. Do not eat, drink or smoke while using this product. Avoid contact with eyes, skin or clothing. Wear protective gloves, eye protection, protective clothing. Ensure effective ventilation of the workplace.

Packing 8 kg

Storability The product keeps the product qualities 24 months from production date in original closed container. To store in dry storage at the temperature 5 to 25 °C. Flammable liquid II. hazard class.

Disposal of packing and waste Hand over the used, properly empty packing at the collection point of the packing waste. Dispose the packing with the product rest at the place determined by the town for disposal of hazardous waste or hand over to the person authorized for hazardous waste disposal. Further see the product safety data sheet.

These data are only for information and their accuracy is influenced by the properties of individual materials and unpredictable factors during application. The user is responsible for correct use of the product according to the direction for use and for correct application of painting system, i.e. he must always evaluate all conditions of application, which could influence final quality of the top treatment. Therefore we always recommend to the user to carry out the test for actual working conditions and type of surface applied. Above mentioned data are data, which influence individual working conditions and therefore they do not establish a legal claim. It is necessary to consult information outside the terms of this catalogue sheet with the producer.

The producer stipulates the right for the change in the catalogue sheets without previous notification.