

Page number: 01

Composition Mixture of pigments and fillers in solution of alkyd-silicone resin in organic solvents with addition of additives and driers.

Characteristics and use The enamel is determined for top coats in interior and exterior on metal surfaces, mainly where the resistance to permanent thermal stress is required. The enamel is resistant to permanent thermal stress up to 250 °C, for a short time up to 350 °C and has an excellent environmental resistance. The coat is resistant very well to salt solutions, mineral oils, diluted sulphur acid, and for a short time to organic solvents, organic acids and hydrochloric acid.

It is produced in two qualities:

- 1) TELKYD T370 shade 9110 aluminium, which is used as a top coat
- 2) TELKYD T370, shade 0840 red brown and 0199 black, which are used as an anticorrosive primer or as a single anticorrosive coat.

- ◆ very good environmental resistance
- ◆ long-term heat resistance up to 250 °C
- ◆ short-term heat resistance up to 350 °C
- ◆ suitable for indirect food contact
- ◆ quick drying

Application area Exterior and interior, metal objects exposed to permanent thermal stress, e.g. shell of drying kiln, warm-water and steam piping, sheeting of chimney, technological piping.

Shades 9110 – aluminium, 0840 – red brown, 0199 – black

Physical properties	Flow time	≥ 130 s (cup Ford Ø 4 mm)
	Weight solids	≥ 52 % / shade 0910 ≥ 68 % / shade 0840, 0199
	Volume solids	ca 36 % / shade 0910 ca 48 % / shade 0840, 0199
	Flash point	30 °C
	Density	950 - 1350 kg/m ³

Emission limits	VOC: 0.32 – 0.45 kg/kg	TOC: 0.27 – 0.38 kg/kg
	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 h
	Adhesion with crosshatch test	degree 0 - 1

Drying time	Surface temperature	15 °C	23 °C
	Dust free	4 h	2 h
	Dry through	16 h	8 h
	Dry film thickness DFT	30 µm	30 µm

Spreading capacity		shade 0840, 0199	shade 0910
	Wet film thickness WFT	85 µm	110 µm
	Dry film thickness DFT	40 µm	40 µm
	Theoretical spreading capacity	9 m ² /kg	9 m ² /kg

Thinning TELSOL BR 6, BALTECH S6006

Surface preparation For corrosive environment C1 – C2 the surface must be before the prime coat application clean, dry, free of grease and rust rest, mechanically cleaned to degree St 2 – St 3. Galvanized surfaces must be cleaned with ammoniac water or water with detergent.

Page number: 02

Application conditions

Stir the paint properly before use so that there will be no sediment on the bottom. To thin and filter if necessary.

The temperature of the paint itself should be 15-25 °C. If the paint temperature is below 15 °C, a higher dilution is required and this can subsequently cause problems with the formation of a homogeneous paint film and a longer drying time.

Minimal air temperature for application is 10 °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 application and drying and high thickness of applied coats markedly slow down drying and hardening of the coat. Imperfectly dried surface can cause problems with adhesion of paint to surface or with adhesion between individual coats. In addition it can negatively affect overall appearance of the paint film.

Workflow

1. apply 1 to 2 coats of TELKYD T370, shade 0840 (0199), total dry film thickness of prime coat is 40 - 80 µm, drying of individual coats 24 hours
2. sanding with sandpaper
3. apply 1 to 2 coats of TELKYD T370, shade 9110, total dry film thickness of top enamel is 40 - 80 µm, drying of individual coats of system 24 hours.

The paint is applied by cross spraying or in parallel strips to achieve a final uniform layer. First it is necessary to treat problematic places (corners, edges, welds, surface defects).

Application

Airless/AirMix spraying (0 – 5 % thinning depending on the type of device)

Conventional spraying (recommended viscosity 25 – 35 s / cup Ford Ø 4 mm; 10 - 15 % thinning)

Brush (0 – 5 % thinning)

Roller (flock) (recommended viscosity 50 - 80 s / cup Ford Ø 4 mm; 4 - 10 % thinning)

Application by brush and by roller is recommended only for small areas and for corrections. If a brush or roller is used for application, multiple coats will be required to maintain the specified coating thickness.

Application data

Data for conventional spraying

Spraying gun e.g. EST 115, EcoGun 116, EcoGun 246

Nozzle according to desired capacity 1.2-1.6; 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)). Spray data are only indicative and subject to adjustment to the type of spraying equipment used.

Device	Nozzle	Pressure on nozzle	Thinning
AirMix	0.009 inch (0.23 mm)	12-15 Mpa (120-150 atm) air assist 1.5-2.0 atm	5 %
AirMix	0.011 inch (0.28 mm)	12-17 Mpa (120-170 atm) air assist 1.5-2.0 atm	5 %
Airless	0.009 inch (0.23 mm)	26 Mpa (260 atm)	5 %
Airless	0.011 inch (0.28 mm)	29 Mpa (290 atm)	5 %

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.

Page number: 03

Packing	10 kg
Storability	The product keeps the product qualities 3 years 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.