

Page number: 01



**Composition** Mixture of pigments, fillers, iron mica and anticorrosive pigments in solution of alkyd resin in organic solvent with addition of driers and additives.

**Characteristics and use** The paint is determined for anticorrosive single coats of steel objects or oxidized galvanized steel\*, especially for highly effective, decorative coats of blacksmith products for indoor and outdoor environments.

When high corrosive stress is expected, it is recommended to use a suitable primer, eg. TELKYD P110. The paint film creates an attractive matt finish with metallic reflections.

(\* paint is suitable for some types of fresh galvanized steel, but it is necessary prior to application to verify an adhesion)

- ◆ excellent adhesion to steel surfaces
- ◆ quick drying
- ◆ suitable for the tinting system HOSTEMIX
- ◆ attractive metallic reflections
- ◆ it stays on vertical surfaces
- ◆ suitable for indirect food contact

**Application area** All kind of forging, restoration works, bars, gates, fences, railings, street lamps, wrought furniture, iron sculptures, steel parts.

**Shades** According to BALT colour chart for this product.

<b>Physical properties</b>	Flow time	thixotropic
	Weight solids	75 %
	Volume solids	≥ 53 %
	Flash point	25° C
	Density	2000 kg/m <sup>3</sup>

<b>Emission limits</b>	VOC: 0.20 kg/kg	TOC: 0.18 kg/kg
	Product subcategory: A/i	Threshold value (2010): 500 g/l
	Max. VOC content in ready to use state: 420 g/l	

<b>Properties of dried coat</b>	Hiding power	degree 1
	Gloss	matt coat with metallic reflexion
	Adhesion with crosshatch test	degree 0 - 1

<b>Drying time</b>	Surface temperature	10 °C	15 °C	23 °C
	Dust free	4 h	2.5 h	1.5 h
	Dry through	24 h	24 h	24 h
	Dry film thickness DFT	100 µm	100 µm	100 µm

<b>Spreading capacity</b>	Wet film thickness WFT	200 µm	100 µm
	Dry film thickness DFT	100 µm	50 µm
	Theoretical spreading capacity	2.6 m <sup>2</sup> /kg	5.2 m <sup>2</sup> /kg

**Thinning** TELSOL BR 5, BALTECH S6005

**Surface preparation** The surface must be clean, dry, free of grease, dust and rust rest, mechanically cleaned. First of all, the surface must be degreased by using a suitable medium (e.g. BALTECH P6402 Technical benzine, BALTECH P6401 Acetone or where it is possible by using high pressure water jetting ( hot water with detergents). Then the surface should be rinsed with pure water. Coarse and tightly adhering dirt must be removed manually or mechanically (sanding, scraping). Any rust can be removed also manually or mechanically (metal brushes, abrasive discs) or by rust remover. In case of use of chemical rust remover is necessary subsequent rinsing with pure water.

Galvanized and aluminous surfaces must be treated according to EN ISO 12944-4, čl. 12.1. and 12.2. It is necessary to clean, degrease and remove poorly adhering old coats from previously painted surfaces.

**Attention:** A direct adhesion cannot be taken as guaranteed due to most different kinds of metals, alloys, metallic and conversion coatings and so on. The adhesion must therefore be tested on the original metal substrate.

To ensure compatibility of new coat with old one it is recommended to contact the producer or carry out test reference coating on surface of 1 m<sup>2</sup>.

#### 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.

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.

For coating / spraying outside the suitable weather forecast is necessary. During rain, fog, creation of condensation water, effect of aggressive gases and during wind with strong content of dust the coating work must be suspended and can be restart after absolute drying of surface-treated material. 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 an application and a 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.

Do not apply the paint on a hot summer day.

#### Workflow

Apply 1 to 2 coats (spraying) of TELKYD S200 BS, final dry film thickness should be at least 100 µm. In cases, where it is necessary, recoating is possible after 24 hours or by the system so-called "wet into wet".

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).

It is very important to apply each coat in a uniform layer, in a thickness specified by the specific paint system. Consumption of paint must be checked to avoid excessive thickness, to avoid splashing, cracking and solvent retention.

Brush and roller application is performed by uniform strokes in one direction. *When the paint is applicate by brush and roller, it is not possible to achieve the same aesthetic appearance as when the paint is applicate by spraying.*

For larger compact areas always use the material from the same batch. Using the same batch can guarantee the same shade of the colour. We recommend to mix the content of the individual cans by homogeneous mixing.

For the finished coating system, it is advisable to establish a maintenance plan within the expected durability of the protective system according to EN ISO 12944-8:2018. The choice of the appropriate type (level) of maintenance is then mainly dependent on the state of corrosion attack (ISO 4628-3).

#### Optimal thickness of system

The optimal thickness and composition of the paint system depends on the aggressivity of atmosphere and on the expected durability of a protective system. The selection of an appropriate system should be in accordance with EN ISO 12944-5: 2018.

Product may be specified in another film thickness than indicated depending on purpose and area of use. Therefore this can alter spreading rate, drying time, overcoating interval and the expected durability of a protective system.

#### Application

Airless/AirMix spraying (5-15 % thinning depending on the type of device)

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

Brush, natural bristle (recommended max. 10 % thinning)

Roller (nylon) (without thinning)

Page number: 03



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 1.4-2.0; 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)). Spray data are only indicative and subject to adjustment to the type of spraying equipment used.

Device	Nozzle	Pressure on nozzle	Thinning
AirMix	0.013 inch (0.33 mm)	12-17 Mpa (120-170 atm) air assist 1.5-2.5 atm	5-15 %
AirMix	0.015 inch (0.38 mm)	15-20 Mpa (150-200 atm) air assist 1.5-2.5 atm	5-10 %
Airless	0.013 inch (0.33 mm)	15-20 Mpa (150-200 atm)	5-10 %
Airless	0.015 inch (0.38 mm)	17-25 Mpa (170-250 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.

**Packing**

1.2 kg; 4.8 kg (tinted product)

**Storability**

The product keeps the product qualities 3 years from production date in original closed container. Shades tinted according to the customer's wishes have a warranty period of only 12 months from the date of tinting.

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.