

# TELKYD S220 POLYVINYL

Anticorrosive polyvinyl single coat

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**Composition** Mixture of pigments, fillers and anticorrosive pigments in solution of alkyd resin and PVC copolymer in organic solvent with addition of additives.

**Characteristics and use** The paint is determined for anticorrosive primers or single coats of steel and light metals as aluminium, copper, galvanized steel (oxidized\*), where it ensures anticorrosive protection for aggressive, corrosive environment C1-C3, i.e. municipal and industrial atmosphere with moderate pollution with sulphur dioxide. After 2 hours it is possible to overcoat the paint with various types of top enamels, e.g. synthetic air-drying, polyurethane or epoxide enamels.  
(\* the paint is suitable for some types of galvanized steel, but it is necessary prior to application to verify an adhesion)

- ◆ excellent anticorrosive protection
- ◆ quick drying
- ◆ suitable for the tinting system HOSTEMIX
- ◆ paint 2 in 1 for cost-saving work
- ◆ suitable for indirect food contact

**Application area** Exterior and interior with medium corrosive stress (laundry rooms, cellars, industrial areas, workshops), metal plate and steel constructions, metal furniture, metal machines, gates, small metal objects.

**Shades** According to BAL, RAL, NCS and ČSN colour chart and the others according to individual customer requirements.

<b>Physical properties</b>	Flow time	250 - 300 s (cup Ford Ø 4 mm)
	Weight solids	> 60 % according to shade
	Volume solids	≥ 40 %
	Flash point	25 °C
	Density	1280 - 1380 kg/m <sup>3</sup>

<b>Emission limits</b>	VOC: 0.35 – 0.40 kg/kg	TOC: 0.31 – 0.35 kg/kg
	This product is for professional use only. Not for DIY.	

<b>Properties of dried coat</b>	Hiding power	degree 1 - 2
	Gloss / 60°	< 8
	Hardness /Persoz/	up 8 % after 24 h
	Adhesion with crosshatch test	degree 0

<b>Drying time</b>	Surface temperature	10 °C	15 °C	23 °C	23 °C
	Dust free	1.5 h	1 h	40 min	60 min
	Dry through	24 h	8 h	5 h	8 h
	Dry film thickness DFT	40 µm	40 µm	40 µm	80 µm

<b>Spreading capacity</b>	Wet film thickness WFT	100 µm	200 µm	300 µm
	Dry film thickness DFT	40 µm	80 µm	120 µm
	Theoretical spreading capacity	7.2 – 7.8 m <sup>2</sup> /kg	3.6 – 3.9 m <sup>2</sup> /kg	2.4 – 2.6 m <sup>2</sup> /kg

**Thinning** TELSOL SP 1, BALTECH S6001 P (spraying); TELSOL BR 5, BALTECH S6005 (brush, roller)

**Surface preparation** For corrosive environment C2 and C3 the surface must be prepared by blast-cleaning to degree Sa 2 ½ according to EN ISO 8501-1 (welds and edges must be prepared according to EN ISO 8501-3). Galvanized and aluminous surfaces must be treated according to EN ISO 12944-4, čl. 12.1. and 12.2. For corrosive environment C1 the surface must be clean, dry, free of grease and rust, mechanically cleaned to degree St 2 – St 3.

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**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.

It is necessary to clean, degrease and remove poorly adhering old coats from previously painted surfaces. 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.

Stackability must be tested for specific conditions (climatic conditions, thickness, number of coats, the shape of the substrate, substrate type, etc.).

## Workflow

1. Apply 1 to 2 coats of TELKYD S220 POLYVINYL, (optimal DFT of one layer 40 µm), drying of one coat is 2 hours. Drying of coat can be accelerated by drying at the temperature <80°C
2. Local bonding with polyester putty (e.g. Rapid), sanding of bonded places
3. Sanding with sandpaper no. 280-320
4. Apply 1 to 2 coats of enamel TELKYD T300 or TELPUR T300, optimal DFT of one coat is 40 µm

Apply 2 to 3 coats (spraying) of TELKYD S220 POLYVINYL, final dry film thickness should be at least 80 µm. In cases, where it is necessary, recoating is possible after 2 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.

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.

## 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.

## 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 - 25 % thinning)

Brush (recommended viscosity 60 - 80 s / cup Ford Ø 4 mm; 10 - 15 % thinning)

Roller (velour) (recommended viscosity 50 - 80 s / cup Ford Ø 4 mm; 10 - 15 % thinning)

Application by brush and by roller is recommended only for small areas and for corrections.

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## 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	0.009 inch (0.23 mm)	12-17 Mpa (120-170 atm) air assist 1.5-2.5 atm	5-15 %
AirMix	0.011 inch (0.28 mm)	15-20 Mpa (150-200 atm) air assist 1.5-2.5 atm	5-10 %
Airless	0.009 inch (0.23 mm)	15-20 Mpa (150-200 atm)	5-10 %
Airless	0.011 inch (0.28 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

2.3 kg; 10 kg; 20 kg (tinted product)

## Storability

The product keeps the product qualities 5 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.