TELPUR P150

Two-component polyurethane anticorrosive primer

Composition

Mixture of inorganic pigments and fillers in solution of acrylic resin in organic solvents, hardened with aliphatic polyisocyanate.

Characteristics and use

The paint TELPUR P150 is determined for high build prime coats on metal and steel surfaces. Temperature during drying must not decrease under 10° C, drying can be accelerated at the temperature 60 °C during 30 minutes. The paint is sandable after ca. 4 hours of drying at the temperature 23 °C.
Before use the paint is mixed properly with the hardener in specified ratio.

- excellent adhesion to steel surfaces and light metals
- quick drying
- excellent sandability
- it stays on vertical surfaces
- suitable for indirect food contact

Application area

Exterior and interior with medium and high corrosive stress, e.g. chemical plants, industrial zones, coating of traffic devices.

Shades

0100 – white, 0110 – grey

Physical properties

Flow time	thixotropic
Weight solids	> 67 % (hardened mixture)
Volume solids	≥ 43 % (hardened mixture)
Flash point	> 25° C
Density of product	1460 - 1510 kg/m^3
Density of hardened mixture	1460 - 1510 kg/m^3

Emission limits

VOC: 0.33 kg/kg of hardened mixture	TOC: 0.29 kg/kg of hardened mixture
This product is for professional use only. Not for DIY.	

Properties of cured coat

Hiding power	degree 1 - 2
Gloss / 60°	< 8
Hardness / Persoz	up 20 % in 2 days
Adhesion with crosshatch test	degree 0

Drying time

Surface temperature	15 °C	23 °C
Dust free	30 min	15 min
Dry through	1.5 h	45 min
Dry film thickness DFT	40 µm	40 µm

Spreading capacity

Wet film thickness WFT	100 µm	200 µm
Dry film thickness DFT	40 µm	80 µm
Theoretical spreading capacity	7.1 – 7.4 m^2/kg	3.6 – 3.7 m^2/kg

Thinning

TELSOL PUR 3, BALTECH U6003, to thin after hardening.
Other diluents (especially those containing alcohols) can significantly slow down the curing mechanism of the chemical reaction.

Hardening

Hardener: TELHARD PUR

Mixing ratio: **20** weight parts TELPUR P150 : **1** weight part TELHARD PUR.
The pot life of the hardened mixture is 4 hours (23 °C).

Surface preparation

For corrosive environment C2, C3 and C4 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).

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Attention: A direct adhesion cannot be taken as garanted 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^2.

Application conditions

Stir the paint properly with a mechanical stirrer before use so that there will be no sediment on the bottom and harden. 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.

Workflow

1. Apply 1coat of two-component epoxy anticorrosive primer TELPOX P100. Drying 24 hours (20 °C), optimal dry film thickness is 35 - 40 µm.
2. Apply 1coat of two-component polyurethane primer TELPUR P150. Drying 24 hours (20 °C), recommended dry film thickness is 80 µm. Temperature during drying must not decrease below 10 °C.
3. Apply 2 coats of two-component polyurethane enamel TELPUR T300 or two-component epoxy enamel TELPOX T300. Optimal dry film thickness of one coat is 40 µm (total 80 µm).

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2. Apply 2 coats of two-component polyurethane enamel TELPUR T300 or two-component epoxy enamel TELPOX T300. Optimal dry film thickness of one coat is 40 µm (total 80 µm).

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.

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 (0-15 % thinning depending on the type of device)
Conventional spraying (recommended viscosity 25-35 s / cup Ford ∅ 4 mm; 15-25 % thinning)
Brush and roller (nylon) (recommended viscosity 60-80 s / cup Ford ∅ 4 mm; 5-10 % thinning)
Application by brush and by roller is recommended only for small areas and for corrections.

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)	12-18 Mpa (120-180 atm) air assist 1.4-1.8 atm	0-15 %
AirMix	0.013 inch (0.33 mm)	12-18 Mpa (120-180 atm) air assist 1.4-1.8 atm	0-15 %
Airless	0.011 inch (0.28 mm)	13-20 Mpa (130-200 atm)	0-15 %
Airless	0.013 inch (0.33 mm)	13-20 Mpa (130-200 atm)	0-15 %

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

10 kg (tinted, not hardened 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.