BARVY A LAKY

TECHNICAL DATA SHEET

TELPUR P180

Two-component polyurethane anticorrosive primer

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Composition	Mixture of inorganic pigments and fillers in solution of polyestere resin in organic solvents, hardened with aromatic polyisocyanate.				
Characteristics and use	The paint TELPUR P180 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. 10 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 quick drying excellent sandability A) version excellent anticorrosive properties it stays on vertical surfaces 				
Application area	Exterior and interior with medium and high corrosive stress, e.g. chemical plants, industrial zones, coating of traffic devices.				
Shades	RAL 7035 grey, RAL 1014 ivory				
Physical properties	Flow time Weight solids Volume solids Flash point Density of product Density of hardened mixture	$30 - 40 \text{ s} / \emptyset 6 \text{ mm Ford}$ ca 67 % (hardened mixture) ca 45 % (hardened mixture) > 25° C ca 1450 kg/m ³ ca 1420 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 Gloss / 60° Hardness / Persoz Adhesion with crosshatch test	degree 1 - 2 < 20 up 20 % in 2 days degree 0			
Drying time	Surface temperature Dust free Dry through Dry film thickness DFT	23 °C 15 min 4 h 40 µm			
Spreading capacity	Wet film thickness WFT Dry film thickness DFT Theoretical spreading capacity	100 μm 50 μm 6.4 m²/kg	220 μm 100 μm 3.2 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	A) Use as 2K PUR sandable filler				
	Hardener: TELHARD PUR P Mixing ratio: 10 weight parts TELPUR P180 : 1 weight part TELHARD PUR P The net life of the hordened mixture is 20 minutes (20 °C). This hordener is only evidence for				

The pot life of the hardened mixture is 20 minutes (20 °C). This hardener is only suitable for use for application by conventional pneumatic spraying !!!

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Do not allow material to remain in hoses, spray gun or spray equipment. Thoroughly and immediately flush all equipment with C 6000 thinner. B) Use as a conventional 2K PUR anti-corrosion base Hardener: TELHARD PUR Mixing ratio: 10 weight parts TELPUR P180 : 1 weight part TELHARD PUR The pot life of the hardened mixture is 1 hour (20 °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). 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 m². Application 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. conditions 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 Use as a 2K PUR sandable filler - Application exclusively by conventional pneumatic A) spraving:

Workflow 1:

- 1. Apply 1 coat of two-component epoxide primer TELPOX P100. Drying 24 hours (20 °C), recommended dry film thickness is about 60 μm DFT.
- 2. Apply 1 coat of two-component polyurethane primer TELPUR P180. When using TELHARD PUR P hardener, the coating can be sanded after 10 h (20 °C), sandpaper P340. Recommended layer thickness 60 µm DFT. If it is necessary to use a higher DFT, it is recommended to apply 2 coats in a "wet into wet" system after 10 minutes.
- 3. Apply 1 or 2 coats of two-component polyurethane enamel TELPUR T360. Optimal dry film thickness of one coat is 40 μm (total 80 μm).

Workflow 2:

- Apply 1 coat of two-component polyurethane primer TELPUR P180. When using TELHARD PUR P hardener, the coating can be sanded after 10 h (20 °C), sandpaper P340-P500 (P800 for perfect appearance). Recommended layer thickness 80 µm DFT. If it is necessary to use a higher DFT, it is recommended to apply 2 coats in a "wet-on-wet" system after 10 minutes.
- Apply 1 or 2 coats of two-component polyurethane enamel TELPUR T360. Optimal dry film thickness of one coat is 40 μm (total 80 μm).
- B) Use as a conventional 2K PUR anticorrosion primer Application by Airless/AirMix spraying:
- Apply 1 or 2 coats of two-component polyurethane primer TELPUR P180, drying at least 2 hours (20 °C). Application of individual layers is possible as well by the system "wet into wet" within 10 – 15 minutes. Recommended dry film thickness is 80 – 100 μm.

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	 Apply 1 or 2 coats of two-component polyurethane enamel TELPUR T360 or two-component polyurethane enamel TELPUR T340 HS. 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. It is not recommended to exceed twice the recommended film thickness.					
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	 A) Conventional spraying (5-15 % thinning) B) Airless/AirMix spraying (5-15 % thinning depending on the type of device) 					
Application data	 A) Data for conventional spraying Spraying gun e.g. EST 315, EcoGun 116, EcoGun 246 Nozzle according to desired capacity 1.4-1.8; Air pressure 1.5 – 3 atm. B) Data for airless spraying Airless/AirMix (tested on the device EcoPump VP 55 445, 64:1 gear 					
	ratio, in col Device	Motion with air assist spray	ring gun EcoGun 2100 (DÜRR)) Pressure on nozzle	Thinning		
				Thinning		
	AirMix	0.011 inch (0.28 mm)	12-18 Mpa (120-180 atm) air assist 1.0-2.0 atm	5-15 %		
	AirMix	0.013 inch (0.33 mm)	12-18 Mpa (120-180 atm) air assist 1.0-2.0 atm	5-15 %		
	Airless	0.011 inch (0.28 mm)	13-20 Mpa (130-200 atm)	5-10 %		
	Airless	0.013 inch (0.33 mm)	13-20 Mpa (130-200 atm)	5-10 %		
	Recommended filter of spraying gun yellow 100/149 (mesh/ μ m), 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	2,5 kg; 25 kg (not hardened product)					
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.

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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.

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