

Stelpant 2K-PU-Cover UV

Product description

Stelpant 2K-PU-Cover UV is a two component high performance, glossy polyurethane topcoat. It is UV-resistant, weatherproof and builds dense and highly resistant films with a glossy surface.

Recommended use

Stelpant 2K-PU-Cover UV is a topcoat highly resistant against industrial and marine atmosphere. Suitable for all types of steel structures, industrial- and petrochemical plants, hydraulic- and civil engineering, bridges and offshore. Tested as part of a coating system according to DIN EN ISO 12944-6:2018-06, corrosivity category C5 and for offshore applications according to DIN EN ISO 12944-9:2018-06.

Technical data*

Product:	Stelpant 2K-PU-Cover UV RAL 7044
Colours:	RAL, NCS, special colours on request
Gloss:	glossy (approx. 85 GU at 60° / DIN EN ISO 2813:2015-02)
Density:	approx. (1.38 +/- 0.05) g/cm ³
Volume solids:	approx. (54.0 +/- 2) %
Theoretical coverage:	approx. 6.8 m ² /l or 4.9 m ² /kg at 80 µm DFT
Recommended DFT:	60 - 80 µm
VOC:	approx. 410 g/l
Thinner:	Stelpant-PU-Thinner (can also be used for cleaning)
Temperature resistance:	max. 120°C (dry heat) or 60°C (wet heat)
Pot life:	approx. 6h (at 20°C)
Mixing ratio:	Comp. I : II = 10 : 1
Storage:	24 month in unopened original packing and stored at a temperature between 5°C and 30°C and protected from direct sunlight

* Data refer to colour RAL 7044 and the mixed product ready for use. Values are calculated. Other colours may vary

Drying

Drying stage acc. to DIN EN ISO 9117-5:2012-11	20°C	10°C
TG 1	1,0 h	1,5 h
TG 3	4,0 h	6,0 h
TG 6	9,0 h	12,0 h

The above mentioned drying times have been determined under laboratory conditions. They are related to the temperatures indicated, at a relative humidity of 60% and a dry film thickness of 60µm. Lower temperatures will extend, higher temperatures will shorten the drying process.

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Overcoating: min. possible after approx. 8 h
 Depending on the condition of the coating it may be necessary to prepare the surface accordingly. After intervals of over 6 month it may be necessary to sweepblast the surface.

Application conditions

Substrate temperature: from +5°C to +50°C
 Luftfeuchtigkeit: up to 80% relative humidity

The surface temperature has to be at least 3°C higher than the ambient dew point.
 Surfaces have to be clean and free of salts or substances that could interfere with adhesion, e.g. oils and greases.

Material preparation

The product is supplied as a 2-component material. The two component coating has to be thoroughly stirred with an electrical or air-driven agitator prior to application. Mixing ratio I : II = 10 : 1. Mixing time not less than 3 min.

Application methods

	Viscosity	Nozzle (recommended)	Pressure (recommended)
Airless spray:	undiluted	0.3 - 0.4 mm	200 - 340 bar
		0.012 - 0.016 inch	2900 - 4930 psi
Brush / Roller:	undiluted		

High pressure air spray is also possible, depending on the viscosity it may be necessary to dilute the material before application.

Processing instructions

Only use Stelpant-PU-Thinner to dilute Stelpant products or for cleaning purposes. The use of other thinners is not allowed and can lead to negative properties of the dry film and/or thickening of the coating material.

Coating systems

For structural steel under C5 conditions acc. to DIN EN ISO 12944-6:2018-06

Durability: low		Durability: high	
1 x 80 microns	STELPANT-PU-ZINC	1 x 80 microns	STELPANT-PU-ZINC
1 x 80 microns	STELPANT 2K-PU-COVER UV	1 x 80 microns	STELPANT-PU-MICA HS
		1 x 80 microns	STELPANT 2K-PU-COVER UV
Durability: very high			
1 x 60 microns	STELPANT-PU-ZINC		
1 x 180 microns	STELPANT-PU-COMBINATION 500		
1 x 80 microns	STELPANT 2K-PU-COVER UV		

For offshore structures acc. to DIN EN ISO 12944-9:2018-06

1 x 60 microns	STELPANT-PU-ZINC
1 x 140 microns	STELPANT-PU-COMBINATION 500
1 x 80 microns	STELPANT 2K-PU-COVER UV

Stelpant 2K-PU-Cover UV**Suitable for hot dip galvanized steel**

1 x 60 microns	STELPANT-PU-MICA HS	or:	1 x 60 microns	STELPANT-PU-OXIDE
1 x 80 microns	STELPANT 2K-PU-COVER UV		1 x 80 microns	STELPANT 2K-PU-COVER UV

Above systems are to be considered as examples. Other systems are possible depending on the intended use and the required lifecycle.

Important notes**Issue date of Data Sheet:**

01/2022. This data sheet supersedes those previously issued.

Safety precautions:

For professional use only.

For all relevant physical, safety, toxicological and environmental data please refer to the Material Safety Data Sheet, which can be provided on request.

Please observe all relevant regulations regarding storage, transport and application as well as the safety precautions printed on the labels on the can.

Disposal:

All empty cans should be disposed of in accordance with local legislation.

Disclaimer:

All products supplied are subject to our General Sales Conditions.

The information given in this Technical Data Sheet is non-binding and merely indicative, as the products can be used under conditions beyond our control. Above data regarding use, application and consumption are to be considered as guidelines only. The corresponding practical data can only be defined per project.

The information in this Technical Data Sheet is based on laboratory testing and given to the best of our knowledge, according to the results of our research activities and our practical experience. However as the products can be used on different materials, substrates and under different working conditions, it is impossible for us to mention all possible details and therefore we cannot accept liability for any damage, unless willfully intended or caused by gross negligence from our side.