

# DUOPLEX® HS PU D191/D193

## 2C-PUR Coating

### Product Range

Duoplex® HS PU D191	Satin gloss
Duoplex® HS PU D193	Micaceous iron oxide

### Product Description

2-component PUR top coat with very quick drying and excellent color and chalking stability. Can be applied thickly with a dry film thickness of 120 µm. Extremely good adhesion to primed steel. May be applied as one-coat paint on dust-blasted, hot dipped galvanized steel surfaces. Long-term thermic stability up to 120 °C dry.

### Areas of Application

Versatile corrosion protection coating, e.g. for steel constructions such as bridges, industrial facilities, sewage works, etc.

### Recommendations for Composition

For example **Steel components**

- 1 x Duopol Steelguard C80
- 1 x Duoplex HS PU D191/D193

**Hot dipped galvanized dust-blasted**

- 1 x Vernit EP C400
- 1 x Duoplex HS PU D191/D193

### Application

Airless, Airmix or Pressure Tank.

Working temperature must be at least + 5 °C. Surface temperature must be at least 3 °C above dew point to prevent condensation during application.

### Dilution with Thinner

Application	Thinning	Nozzle
Pressure tank	5 - 10 % V2 or V109	1.3 - 1.8 mm
Airless	0 - 5 % V2 or V109	narrow 211 medium 411 wide 611

### Special Notes

Hardener H100 is **moisture-sensitive**.

Our indications are based on a dry coat thickness of approx. 60 µm in the case of primers, and approx. 40 µm in the case of top coatings, normal climate 23/50. The information contained in this technical data sheet is based on general technical standards and is meant for specialists. Any changes in the recommended operating procedures or specified environmental conditions may significantly influence the results. Our guarantee covers only the quality of the material delivered. We do not accept any responsibility for the application. In case of doubt, we recommend contacting our Technical Service. Our products are under constant development. Therefore, please note date of issue of our technical data sheet and ask for latest edition.

### Safety Measures

Duoplex HS PU D191/D193 contains solvents and is combustible. Protected from heat and keep away from naked flames. Ensure that ventilation is adequate. Do not inhale vapours. The Safety Data Sheet as well as the general regulations regarding work hygiene and operational measures must be observed.

### Technical Data

<b>Binder</b>	2C Acrylate/Isocyanate
<b>Finish</b>	Satin gloss
<b>Color</b>	Shade cards RAL, NCS or sample Micaceous iron oxide DB shades Due to the raw materials used, slight variations from original shade cards are possible!
<b>Substrate</b>	2-component primers: - Duopol Steelguard C80 - Bilacryl EP C90 - Vernit EP C400 - Bilacryl PU C180 - Amerlock 400 AL + Color Substrate must be dry and free of grease and dust. To obtain good coverage with lead-free yellow, orange and red color shades, we recommend use of a pale (white) primer.
<b>Thinner</b>	V2, V109 at higher air temperatures The use of other thinners may lead to defects and quality impairment.
<b>Packaging</b>	Pigment 20 kg/20 kg disposable container Hardener 2.5 kg/2 kg disposable container
<b>Storage</b>	Pigment 12 months, hardener 6 months in original, unopened container at 20 °C.
<b>Waste disposal</b>	Residues and expired material must be taken to a toxic waste disposal unit, VeVa-code 08 01 11.

<b>Components Hardener</b>	2 H100
<b>Mixing ratio</b>	8 : 1 wgt.-parts RAL-colors 10 : 1 wgt.-parts DB-colors
<b>Potlife</b>	ca. 4 hours at 20 °C
<b>Drying (23°C)</b>	Dust-dry ca. 30 minutes Dry to touch ca. 5 hours Thoroughly dry ca. 20 hours Drying times depend on film thickness, and substrate and air temperatures.

	Duoplex D191	Duoplex D193
	Mixture white	Mixture DB 701
<b>Solids wgt.-%</b>	ca. 72 %	ca. 72 %
<b>Solids by volume</b>	ca. 60 %	ca. 60 %
<b>Density (20°C)</b>	ca. 1.3 kg/l	ca. 1.6 kg/l
<b>Theoretical consumption @ 120 µm TSD</b>	280 g/m <sup>2</sup>	320 g/m <sup>2</sup>

	Duoplex D191/D193	H100	V2	V109
<b>VOC value</b>	30 %	27.5 %	100 %	100 %

(replaces issue 04.17)

01.20