

**EP83****0001****Epoxy paints****2K-Epoxy Ferric Mica Undercoat**

<b>Trade name / Product code</b>	<b>EP83 / 0001</b>		
<b>Material base</b>	Epoxy resin		
<b>Glossiness level</b>	Matte		
<b>Hardener</b>	<b>ET02 ET05, ET27</b>		
<b>Thinner</b>	<b>S6300</b>		
<b>Hardening ratio Paint : hardener</b>	7 : 1 parts by weight 4.5 : 1 parts by volume <b>The paint should not be thinned before processing!</b>		
<b>Reaction time</b>	10 minutes after processing.		
<b>Pot life, 20 °C</b>	ET02 - max. 4 hours ET05, ET27 - max. 4 hours <b>Processed mixture must NEVER be used after the lapse of the pot life (4 hours) and should not be mixed with a newly produced mix and vice versa!</b>		
<b>Processing data</b>	<b>Air spraying</b> Thinner: S6300 Application viscosity: 20 to 40 s / 4 mm cup DIN / 20 °C Jet: 1.3 - 1.6 mm Pressure: 3 - 5 bar <b>Airless / airmix spraying</b> Thinner: S6300 Application viscosity: 25 to 80 s / 4 mm cup DIN / 20 °C Jet: 0.28 - 0.33 mm airless / E311, E411 airmix Pressure: 120 - 150 bar airless 80 - 120 bar / 1.8 - 2.2 bar airmix <b>Roller, brush</b> Thinner: S6300 Application viscosity: 20 to 40 s / 4 mm cup DIN / 20 °C		
<b>Processing</b>	<b>The minimum temperature of both the base and the hardener before processing should be 10 - 25 °C!</b> Mix the paint thoroughly after opening the package. When using less than the whole package, weigh the pre-calculated quantity of paint (7 parts of base and 1 part of hardener by weight) or measure parts by volume using the appropriate rule (4.5 parts of base and 1 part of hardener by volume). After mixing both components thoroughly, thin the processed mixture to the viscosity value needed for the specific application with thinner S6300. It is recommended to apply the paint after 10 minutes of processing (reaction time).		
<b>Drying times at 20 °C Wet thickness 50 µm</b>		ET02	ET05, ET27
	Dustproof / 20 °C:	50 minutes	30 minutes
	Touch dry / non-sticking / 20 °C:	120 minutes	50 minutes
	Recoatable / 20 °C:	180 minutes	90 minutes
	Workable / 20 °C:	7 hours	3 hours
	Final curing time / 20 °C:	7 days	7 days

**EP83****0001****Epoxy paints****2K-Epoxy Ferric Mica Undercoat****Technical data**

The rate of cure and achieving the final properties vary depending on the climatic conditions and coat film thickness.

**Additional drying temperature:** max. 60 °C

**Colours:** 0100, 0110, 0840, RAL as agreed

**Supplier viscosity, 20 °C:** thixotropic

**Density, base, 20 °C:** 1.60 to 1.70 g/cm<sup>3</sup>

**Density, processed mix, 20 °C:** 1.50 to 1.60 g/cm<sup>3</sup>

**Dry matter content, base:** approx. 79 % by weight

**Dry matter content, processed mix:** approx. 75 % by weight  
approx. 69 % by volume

**VOC content, base:** approx. 210 g/kg

**VOC content, processed mix:** approx. 250 g/kg  
approx. 380 g/l

**Total organic carbon TOC content, processed mix:** 220 g/kg

**Theoretical spreading rate:**

Dry film thickness 40 µm 10 to 12 m<sup>2</sup>/kg

Consumption depends on object shape, surface roughness, and application technique and conditions.

**Maximum thinning to 500 g  
VOC in 1 l of processed and  
thinned mix**

130 g S6300 per 1 kg of processed mix (both hardener ET02 and ET05, ET27).  
To Regulation No. 415/2012 Coll.

**Application data****Application conditions**

Air temperature: +5 to +30 °C

Base and hardener temperature: +10 to +25 °C

Object surface temperature: min. 3 °C above dew point

Relative humidity of air: max. 70 %

Number of coats: 1 - 2

Wet film thickness: min. 75 µm  
recommended: 125 - 150 µm

Dry film thickness: min. 40 µm  
recommended: 80 µm

The thickness of a coat applied in a single working step on a vertical surface depends on object shape, surface roughness, and application conditions.

**Overcoatability:** The paint can be overcoated with the same paint or a suitable top paint.

Second paint coat can be applied "wet on wet" after 40 - 80 minutes.

Top coat can be applied after 3 hours (hardener ET02) or 90 minutes (hardener ET05, ET27) of intermediate coat drying.

If exposed to the effects of polluted environment, the surface should be cleaned thoroughly before next coat application, at best by rinsing with high-pressure clean water, and let dry up.

The maximum period of overcoatability with a top coat is 30 - 50 days; after that, a new prime coat has to be applied in a dry film thickness of 30 - 40 µm.

**Application**

Intermediate coat with a barrier pigment in the coating systems subject to high corrosion resistance demands (industrial products, steel structures, etc.). In combination with an epoxy corrosion resistant primer and a polyurethane top paint, the coat provides high weather and chemical resistance.

**Surface preparation**

Metal or mineral surface coated with a suitable primer.



**EP83**

**0001**

**Epoxy paints**

## **2K-Epoxy Ferric Mica Undercoat**

### **Utility properties**

The cured coat is resistant to abrasion.

**Cross-cut test** (steel): degree 0 to 1

**Temperature resistance:**

Long term: 90 °C

Short term (max. 60 minutes, dry): 120 °C

For more details please contact our technical department.

### **Cleaning and maintenance**

The mixing and application tools should be cleaned as soon as possible with thinner C6000 or S6300.

### **Packages**

1 kg to 200 kg metal packages as agreed.

### **Shelf life**

Paint - 24 months; hardener - 6 months from the date of manufacture if kept in the original closed packages in a dry room, out of direct sunlight and at a temperature from +5 to +25 °C. The storage areas should meet all the conditions for storage of hazard class II combustibles.

### **Documentation**

Technical Application Guide  
Material Safety Data Sheet

### **Disclaimer**

The product data provided in this Technical Application Guide results from the current level of production, laboratory and application tests. The manufacturer reserves the right to make revisions according to the state of development. As the product is used frequently beyond our control, we cannot guarantee anything else than the quality of the product as such. We are not liable for any mistakes occurring due to wrong application, application past the shelf life or improper storage.

This document only provides non-binding information that has to be concretized by the end user for the specific product type. On no account this document supersedes the identification data of this product specified in the material safety data sheet.

### **Date of issue**

19. 10. 2015

### **Revision date**

18. 01. 2018

**Before starting works with this product, ALWAYS read thoroughly the relevant material safety data sheet and the material safety data sheets of the applicable hardener! Observe the safe handling and occupational safety instructions.**

**For more detailed information please contact our technical department.**