

### Product description

<b>Operational Sector:</b>	Mipa WBS 2K-EP Fußbodenfarbe is a chemical and abrasion resistant 2K epoxy floor paint for interior use on metallic and mineral substrates. Suitable to coat floors in garages, workshops and warehousing.										
<b>Features:</b>	<ul style="list-style-type: none"> <li>- high impact and scratch resistance</li> <li>- high abrasion resistance, adapted to fork lift traffic</li> <li>- excellent adhesion to mineral substrates such as for example concrete, cement screed;</li> <li>- resistant to plasticizers;</li> <li>- resistant to diluted acids and bases, water, oils, petrol, de-icing salt. Not suitable for permanent stress (tanks, collecting trip pan)</li> <li>- easy to decontaminate</li> </ul>										
<b>Content according to VdL Directive 01:</b> (Association of German paint industry)	epoxy resin, water, filler, additives, preservative										
<b>Colour:</b>	pebble grey (approx. RAL 7032)										
<b>Specification:</b>	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">binder base:</td> <td>epoxy solid resin dispersion</td> </tr> <tr> <td>solid content:</td> <td>approx. 70 % by weight</td> </tr> <tr> <td>delivery viscosity (DIN 53 211):</td> <td>110 - 130 s 4 mm</td> </tr> <tr> <td>Specific weight (DIN 51 757):</td> <td>1.4 - 1.5 kg /l</td> </tr> <tr> <td>Gloss level:</td> <td>satin gloss</td> </tr> </table>	binder base:	epoxy solid resin dispersion	solid content:	approx. 70 % by weight	delivery viscosity (DIN 53 211):	110 - 130 s 4 mm	Specific weight (DIN 51 757):	1.4 - 1.5 kg /l	Gloss level:	satin gloss
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<b>Storage:</b>	at least 1 year, if the tightly closed original packages are kept dry, protected against frost. Storage temperature between +10°C and +30°C maximum.										
<b>VOC regulation:</b>	EU limit value for the product (cat. A/j): 140 g/l This product contains max. 45 g/l VOC.										

### Application

<b>Processing conditions :</b>	Do not apply at a temperature below + 12 °C and above +30°C and at a relative air humidity above 70 %. Optimal conditions: air temperature: 20 - 25°C; object temperature >15° C; relative air humidity: 40 - 60 %; air speed: > 0.4 m/s.
<b>Suitable substrates:</b>	Dry, clean, solid, free from oil, rust, grease, flaking parts and substances impairing the adhesion (e.g. laitance, release agents, a.s.o.) Seal the substrate against ascending humidity. Bond strength > 1.5 N/mm <sup>2</sup> .
<b>Substrate preparation :</b>	<b>Mineral substrates:</b> mineral substrates (well set, dimensionally stable and solid), must be free from friable parts and other substances that may affect the adhesion (e.g. rubber marks, greases, oils and similar). The equilibrium moisture content must be achieved (concrete, cement screed < 4% by weight, anhydrite screed < 0.3% by weight, magnesite floor < 4% by weight). Ensure perfect insulation against earth humidity. Bond strength: minimum 1.5 N/mm <sup>2</sup> . Remove old 1K or flaking 2K paintworks. Prepare the substrate by e.g. blasting or milling.
<b>Laitance or brittle, non-adherent layers :</b>	Test the surface strength by scratching with a sharp device or a needle at different spots on the floor. There is often a brittle layer just 1mm underneath a thin hard surface.

This technical data sheet is supplied for informational purposes only! According to our information, all data and recommendations correspond to the state of art and are based on years of experience in manufacturing our products. They do not exempt the user from his obligation to verify professionally, on his own responsibility, the suitability of our products to the intended purpose under prevailing conditions. Safety data sheets and warnings on packaging must be observed. We reserve the right to modify and to complete the information content at any time, without prior notice or obligation to update.

**Dense Concrete Surfaces (smooth, hard and almost 'shiny'):**

These layers must be removed mechanically or chemically (with a solution of hydrochloric acid 10 %. Wash with clear water.). Ensure the substrate is sufficiently cleaned, in good condition and firmly adhering.

Test the absorbency by scratching and subsequently wetting the scratches in each part of the floor. Only the scrapes will become darker (indicates the absorption). The areas around these scratches show no absorption. These dense layers must be removed mechanically or chemically (10 % solution of hydrochloric acid, then wash with clear water) until a perfect absorbency is achieved.

**Oil, grease, wax and residues soapsuds:**

Wash by using a cleaning agent (do not use products which contain care additives such as wax, silicone a.s.o.). Repeat the operation if necessary. Sometimes deep penetrated substrates are impossible to clean. Remove and eventually renew heavily contaminated areas.

**The pores have to be open and free of dust :**

After cleaning use a powerful industrial vacuum cleaner to remove any existing dirt and dust. This is particularly important when the floor has been treated mechanically. Sand slightly the surface of well-adherent 2K-coatings. Test the compatibility (on a sample area). Damaged coatings must be removed completely (mechanically or by paint remover).

**Mixing ratio :**

Mix thoroughly  
6 parts by weight Mipa WBS 2K-EP Fußbodenfarbe with  
1 part by weight hardener Mipa WBS EP-Härter Component B for Mipa WBS 2K-EP-Fußbodenfarbe  
Allow 15 min. before further processing.

**Dilution :**

Mipa WBS VE-Wasser

**Application process :**

**Brushing and rolling:** Apply undiluted (short pail paint roller e.g. velour)

**Spraying**

**Air:**

**Airless:**

viscosity: 25 - 30 s 4mm DIN

50 s 4 mm DIN

nozzle: 1.5 - 1.8 mm

0.28 - 0.33 mm

pressure: 3 - 4 bar

120 - 150 bar

**Drying:**

resistant to foot traffic: after approx. 1 day;  
mechanical resistance: after approx. 3 days;  
chemical resistant and suitable for fork lift traffic: after approx. 7 days

**Pot life :**

approx. 2 hours at 20°C. **Attention:** The end of pot life does not manifest itself by viscosity increase. Exceeding the pot life results in deviations in gloss/ colour as well as in bad adhesion and in lower resistance to mechanical and chemical strains.

**Coating structure:**

In case of new, strong absorbent substrates, apply a basecoat of WBS 2K-EP Fußbodenfarbe diluted 1 : 1 with water using a brush.

**Smooth coating**

1<sup>st</sup> coat Mipa WBS 2K-EP Fußbodenfarbe diluted up to 1-5 %

2<sup>nd</sup> coat Mipa WBS 2K-EP Fußbodenfarbe undiluted

**Non-slip coating:**

1<sup>st</sup> coat Mipa WBS 2K-EP Fußbodenfarbe diluted up to 1-5 %, incl. 10-30% by weight Mipa Grip-Substrat

2<sup>nd</sup> coat Mipa WBS 2K-EP Fußbodenfarbe undiluted

Recoatable: at the earliest after 8 hours and at the latest after 24 hours.

In case of longer drying times an intermediate sanding is recommended.

Do not exceed a maximum coat thickness of 200 µm.

**Consumption :**                      Approx. 3 m<sup>2</sup> / kg

### **Special notes**

Substrates gritted with Mipa Flock Chips are not suited for garages and warehouses (suitable only for foot traffic). Prime poorly absorbent, friable substrates with Mipa Tiefgrund LF to consolidate the substrate. In case of applications on larger surfaces ensure to use only material from the same batch or intermix different batches from the beginning. Transfer the mixture in another container and stir again thoroughly.

### **Safety instructions**

Safety data sheet available on request for professional user.

### **Cleaning of tools**

Tools should be cleaned immediately after use with water or warm soap solution. In case of longer interruption, intermediate cleaning is recommended.

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