

Product Information

Product description

Operational Sector :	Solvent-free 2K-epoxy resin self-levelling floor sealant for mineral substrates (floor coating in workshops, warehousing, industrial plants). In particular, there is a top coat of high gloss and exhibits significantly improved flow properties. To be applied by brushing or filling.										
Specification :	<table border="0"> <tr> <td>Binder base:</td> <td>Epoxy resin</td> </tr> <tr> <td>Solid content:</td> <td>94 - 97 weight-% 89 - 94 volume-%</td> </tr> <tr> <td>Delivery viscosity (DIN 53 211):</td> <td>thixotrope</td> </tr> <tr> <td>Density (DIN EN ISO 2811):</td> <td>1.50 - 1.60 kg/l</td> </tr> <tr> <td>Gloss (DIN EN ISO 2813):</td> <td>> 80 units/60° (gloss)</td> </tr> </table>	Binder base:	Epoxy resin	Solid content:	94 - 97 weight-% 89 - 94 volume-%	Delivery viscosity (DIN 53 211):	thixotrope	Density (DIN EN ISO 2811):	1.50 - 1.60 kg/l	Gloss (DIN EN ISO 2813):	> 80 units/60° (gloss)
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Features :	<ul style="list-style-type: none"> - high chemical and mechanical resistance - high abrasion resistance, suitable for fork-lift trucks - outstanding performance against fuel, oils, tar; limited resistance to solvents and acids or bases in low concentrations - resistance to frost and to de-icing salt - may be decontaminated (seed resistant) - short-term temperature exposure: 130°C - permanent temperature exposure: 100°C - max. humid heat conditions (wet room systems) and water: 40 °C; - adhesion test (DIN EN ISO 2409): concrete: Gt 0 (very good) 										
Theoret. Consumption :	55.1 - 55.8 m ² /kg (by 10 µm dry coat thickness) 78.8 - 81.3 m ² /l (by 10 µm dry coat thickness)										
Storage :	At least 2 years in tightly closed original containers										
VOC-regulation:	EU limiting value for the product (cat. A/j): 500 g/l This product contains max. 150 g/l VOC [1.25 lbs/gal]										

Application

Processing conditions :	from + 10 °C and up to + 25 °C (object temperature).
Substrate preparation :	Mineral substrates: setted concrete of stabilised shape and loadable, free from sanding dust and other substances with separation effect (such as rub down traces, grease, oil, a.s.o.). The humidity has to be equalized on the whole area (concrete, composition floors based on cement < 4 weight-%, anhydrite < 0.3 weight-%, magnesite 2 - 4 weight-%, xylolite 4 - 8 weight-%). Seal perfectly against moist. Pull off resistance: minimum 1.5 N/mm ² . Blast cleaning or milling will provide an improved key.
Cement sludge resp. crumbly coatings which are not in good condition or firmly adhering :	check the adhesion of different areas by scratch test using either a sharp device or a needle. Sometimes a crumbly zone could be found at about 1 mm under a thin, hard surface. If the substrate is not in good condition it must be thoroughly mechanically or chemically treated (with a solution of hydrochloric acid 10 %, then wash with clear water and dry). Ensure the substrate is sufficiently cleaned, in good condition and firmly adhering.
Mechanical cleaning :	Ball blasting or milling.

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Compact, glassy sintered coats :

Scrape the surface to check the absorbence and wet with water in different places. The scrapes will become darker, on the rest of the sintered coat neither absorption nor darker colouration will be noticed. Remove mechanically or chemically the sintered coats by using a solution of hydrochloric acid 10 %, then wash with clear water and dry. An instant uniform darkening of the whole surface by wetting certifies that the optimum degree of absorbence is reached.

Oil, grease, wax and soap suds residues :

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 required. Sometimes deep penetrated substrates are impossible to clean. Remove and eventually renew heavily damaged areas.

The pores have to be open and free of dust :

After cleaning use an industrial dust collector to exhaust all traces especially in case of mechanical treatment of the surface. The existing 2K-coatings in good condition and firmly adhering should be sufficiently sanded. Ascertain the compatibility (on a sample area). Damaged old coatings should be restlessly removed (mechanically or by using a paint remover Mipa Abbeizer).

**Drying
Object temp. 20 °C**

dust dry	set to touch	can be tread on
15 - 30 min	40 - 60 min	12 h

May be full loaded (mechanically and chemically): after 7 days

Hardener :

Mipa 2K-EP-Härter EP 975-25

Mixing-ratio :

5 : 1 by weight

Pot life :

40 - 60 min.

Application proposal:

Roller coating (smooth):

Groundcoat: EP 150-70;
Top coat: EP 275-70 (coat thickness 0,2 - 1,0 mm)
Attention: if the groundcoat EP 150-70 is not recoated within 24 h, an intermediate sanding is required.

Roller coating (non-slip):

Groundcoat: EP 150-70;
Top coat: EP 275-70 (coat thickness 0,2 - 1,0 mm)
Spread Mipa Quarz Additiv or Mipa Grip Substrat (spreading rate approx. 1 kg / m²) on the substrate coated with EP 150-70 when the basecoat is still wet. Recoat by rolling with EP 275-70 after complete drying of the substrate.

Levelling:

Groundcoat: EP 150-70;
Top coat: EP 275-70 (coat thickness 1,0 - 4,0 mm)
By drying times longer than 24 h till the application of the finishing coat, sand or spread quartz sand Mipa Quarz Additiv or Mipa Grip Substrat (spreading ratio: approx. 1 kg/m²) on EP 150-70 coating while still wet. Blow off or sweep all surplus sand before starting the next operation. Upon hardener addition to EP 275-50 good agitation is recommended in order to obtain proper mixing. Add Mipa Quarz Additiv (mixing ratio 2:1 by weight). Apply the flow coat prepared as above on the groundcoat and level by scraping. Ventilate the treated area after 20 minutes by using a deaeration device.

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Special remarks

To be used only by professionals. Intensive blending at reduced rotation (less than 400 rpm) of the hardener components by using an electrical blender is recommended. Transfer the blended material in another container and stir again thoroughly. An insufficient blending could be critical for the success of the application (appearance of a spotty surface). Chalking or colour change may in short time appear as result of the weathering. The chalking has no influence on the coating resistance. Colour and chalking stability could be improved by recoating with Mipa PU 250-50. Blending with Mipa Grip-Substrat allows the creation of non-slip surfaces. A blister-free surface is obtained by applying a suitable groundcoat and by working at lower temperature. Protect the surface against humidity (fog, rain) till it sets. If the substrate is not haze-free as result of severe local conditions such as high air humidity and lower temperatures, wash with water and detergent to remove all haze film and to give a maximum anchor pattern. The still flowing coat should be aerated by using a barbed roll. To reduce the shrinkage (for example by pre-filling the joints larger than 5 mm) Mipa Grip-Substrat should be used. By addition of Mipa EP-Verdünnung a pregnant odour of solvent may be developed. Please check for colour accuracy prior to use.

Safety instructions

Do not smoke, eat or drink during application. Keep away from children.

Cleaning of tools

Tools should be cleaned immediately after use with thinner Mipa EP-Verdünnung.

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