

2K-Aqua Hallenmarkierung MB

2K Aqua Hall Marking MB

1. PLACE	☒ Indoors	☐ Outdoors	
2. TYPE	☒ Line	☒ Surface	☒ Symbol TS
3. STRESS	☐ Low	☒ Medium	☐ High

General description

Material type: 2K Aqua Hall Marking MB based on epoxy resin

Area of use: For the production of permanent markings of lines, areas and symbols (VZ) on bituminous substrates (mastic asphalt, asphalt concrete) and concrete and cement-bound substrates in indoor areas. Particularly suitable for sensitive areas.

Product features:

- » Low odour
- » Solvent-free in accordance with VdL Guideline 01
- » High coverage
- » Clearly visible
- » Suitable for forklift traffic
- » Excellent chemical resistance
- » Due to their chemical cross-linking, the coatings are resistant to components found in car tyres
- » By adding additive R (see TM), slip resistance class 11 is achieved.

Colours: White
Traffic yellow RAL 1023



No partial removal possible.

Please note: The transparent base cannot be used as a colourless top seal.

Package sizes: 1 kg (800 g base coat + 200 g hardener)

5 kg (4 kg base coat + 1 kg hardener)

Technical data

Binder base: Water-emulsified 2-component epoxy resin

Material preparation: 4 parts by weight 2K-Aqua Hall Marking MB base coat
1 part by weight hardener for 2K-Aqua Hall Marking MB (specified in packaging units)

To ensure that the individual components are thoroughly mixed, it is essential to mix them mechanically for at least 2–3 minutes. 300–400 rpm.

Attention! The components must be mixed exclusively by weight and not by volume.

First add the hardener and mix in. Only then thin the mixture with the appropriate amount of water (up to a maximum of 20%). This automatically results in a double mixing effect. Care must be taken to ensure that the container wall zones are also included in the mixing process. Finally, transfer to a clean container and mix again.

Only absolutely 100% homogeneous mixtures of both components in the correct mixing ratio result in flawless film properties.

Pot life: Mixed material can be processed for approx. 2 hours at +20°C; at higher temperatures, the processing time is correspondingly shorter. Mixtures **must** be used within 2 hours, as the material becomes unusable after this time.
Material that has become viscous cannot be made usable again by adding water.

The pot life of 2K-Aqua Hall Marking Paint MB is recognisable.

Processing instructions: 2K-Aqua Hall Marking MB can be rolled or sprayed on. Thin with tap water depending on the type of job and the absorbency of the surface. Suitable substrates are cement screeds and concrete, but also mechanically heavily used floor surfaces made of wood-based materials, plaster surfaces of MG II and III. Indoors, hard asphalt floor surfaces can be coated with 2K-Aqua Hall Marking MB.

Spraying information

Device	Nozzle/filter	Dynamic pressure	Spray pressure	Thinner
Wagner Spraypack	517HEA/411HEA/415 LL	Level 5	Level 3	40%
Wagner SF 21	413LL yellow	200-180	140	40%
Graco GX FF	FFLP 412 / LL315	150	100	40%
Graco Quick Shot	Do not use			

Requirements for the substrate:

The substrate must be load-bearing, dimensionally stable, free of dust and oil, and free of cement slurry and curing compounds. Poorly adhering old paint and contaminants that reduce adhesion must be removed and dust must be removed by **vacuuming**. Observe the reference to DIN EN 13813.

Concrete or cement-bound substrates:

Surface components that interfere with adhesion, such as fine mortar layers, concrete slurry or retarders applied to new concrete surfaces, must be completely removed prior to application using suitable methods (e.g. high-pressure water cleaning, fine milling, etc.). The moisture content of the ground must not exceed 4% during marking.

Resin floors

Synthetic resin floors are usually made of epoxy resin or polyurethane. They are divided into sanded and non-sanded coatings. These coatings must always be classified as critical substrates. Since the synthetic resin floors to be coated are in most cases older than 3 days, it is important to roughen them beforehand using suitable methods (e.g. shot blasting, fine milling, etc.) before applying 2K Aqua Hall Marking. If the marking is applied within 2 days of applying the synthetic resin coating, there is no need for prior roughening. Due to the wide variety of different coating systems, it is strongly recommended that test coatings/adhesion tests be carried out and, if necessary, that technical information be requested from the coating manufacturer and observed. The availability of technical data sheets for the synthetic resin coating in question is always advantageous for the application, as it allows the composition and properties of the coating to be assessed. (Request from the floor coating manufacturer!

The preparation of the substrate and the execution of the painting work must correspond to the current state of science and technology. Please also refer to the current BFS data sheets and VOB, Part C, DIN 18363 Painting and varnishing work.

Substrate strength:

Thin coatings cannot perform any load-distributing function, or only to a very limited extent. Therefore, the respective substrate must be able to absorb the expected mechanical stresses. In addition to high surface quality, concrete and cement screeds, for example, must have the following minimum strength:

- for light stress = B 25 or ZE 30
- for medium stress = B 35 or ZE 40

Tear resistance must not be less than 1.5 N/mm².

Hard asphalt screeds must comply with hardness class GE10 or 15.

Degree of drying out:

Cement-bound substrates must be dry (approx. 25 days). In concrete, the moisture content of the outer layer, which is approximately 2 cm thick, must not exceed 4–5 % by weight. Cement screeds should contain a maximum of 3.5% moisture by weight. Anhydrite screeds max. 1%.

Risk of moisture penetration from the rear:

All reaction resins are more or less sensitive to moisture penetration from the reverse side. Therefore, walls or floor slabs in contact with the ground must be adequately protected by means of a rear moisture barrier (DIN 18195). In the case of floor areas without cellars that are not sealed or poorly sealed at the bottom, moisture accumulation under the coating can cause damage and staining.

Paint structure:
Normal absorbent substrate:

Primer coat: thinned with 10–20% tap water.

Top coat: thinned with 10% tap water.

Highly absorbent substrate:

Primer coat with 2K-Aqua Hall Marking MB thinned with approx. 30% tap water. Two to three coats, thinned with 10–20% tap water.

Consumption/range	
1. Coat thinned by 5% 2. Coat unthinned	
Wet film thickness	400 µ
Theoretical consumption*:	0.360 kg/m ²
Theoretical range at 10 cm line width	28 running metres/kg

Actual consumption depends on the applied layer thickness, the application method and the nature of the substrate.

Drying time:

(23°C, 60% relative humidity)
Walkable: after drying overnight (at least 12 hours)
Can be painted over: after 12 hours
Fully loadable after 24 hours

The drying time depends on the wet film thickness, temperature, humidity and the material and ceiling temperature. Only open the roadways to traffic after the contractor has checked that they are completely dry.

Working temperature and indoor climate:

- The ambient air and the substrate must have a minimum temperature of +10°C.
- The optimum processing temperature is between +15°C and +25°C.
- Humidity levels above 80% can cause white discolouration and loss of shine.
- Ensure good ventilation during processing and drying, as otherwise reaction problems and differences in gloss may occur.

Paintability:

In general, a period of 12 hours between individual coats is recommended. **Drying times of several days between individual coats can already cause adhesion problems.** During renovation work, it is necessary to sand down the old cross-linked paint to ensure that the new paint adheres well.

Slip resistance:
(Wet area)

An anti-slip effect is achieved by stirring in approx. 10% Additive R in 2K Aqua Hall Marking MB achieved. The following procedure shall be followed:
Primer with 2K-Aqua Hall Marking MB thinned with 20% water. Intermediate coat with 2K-Aqua Hall Marking Paint MB thinned with 10% water. Final coat unthinned mixed with 10% additive R. This achieves slip resistance class R11. Application rate to be observed: 220 g/m².
Apply a test coat before use.

Slip resistance:
(Wet area)

Attention: Ensure that the paint is carefully distributed. Nevertheless, absolute visual uniformity cannot be achieved, especially on larger surfaces.

If the final coating is applied with several containers, ensure batch uniformity.

Chemical resistance table

Chemicals	Resistance
Alcohol	Temporarily resistant

Ammonia solution 25%	Resistant
Petrol	Resistant
Beer	Resistant
Methylated spirits	Temporarily resistant
Calcium hydroxide solution	Resistant
Diesel	Resistant
Ethanol	Temporarily resistant
Potassium permanganate solution 6%	Resistant
Copper sulphate solution 25%	Resistant
Seawater	Resistant
Sodium carbonate solution 15%	Resistant
Sodium chloride solution 5%	Resistant
Sodium chloride solution 35%	Resistant
Sodium hydroxide solution 10%	Resistant
Paraffins	Resistant
Pril	Resistant
Propanol	Temporarily resistant
Castor oil	Resistant
Red wine	Resistant
Cooking oil	Resistant
Water	Resistant
White wine	Resistant
Sugar solution	Resistant

Resistant: Test for 14 days.

Depending on the colour shade, colour changes are possible.

Short-term resistant: resistant for short-term loads of up to 3 days.

However, colour changes or swelling may occur, but these do not impair the functionality of the coating.

The test was conducted at room temperature. In the event of deviations in temperature or concentrations, the information provided is invalid.

Thinning agent: Tap water

Tinting: The colours can be mixed together in any ratio. Do not mix with other paints.

Important information: **Drivable**
Suitable for vehicles with rubber tyres. Not suitable for loads from vehicles with metal or polyamide tyres or dynamic point loads.

Cleaning the tools:	Immediately after use with warm soapy water. Clean equipment during prolonged use and during work breaks. Do not allow water to enter the sewage system, the environment or waterways.
Disposal:	Only place completely empty containers in the recycling bin. Dispose of containers with residues at the collection point for old paint.
Storage:	Store in a cool place, but not in the freezer.
GISCODE:	RE20

Labelling	Please refer to our current safety data sheet on the Internet at www.jansen.de
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The technical information has been compiled in accordance with the current state of science and technology. However, the individual recommendations cannot be considered to be binding as application and processing methods are beyond our control and the different nature of the substrates requires working methods to be tailored accordingly from a professional and craftsmanship perspective. The recommendations do not release the customer from the obligation to test the supplier's products for their suitability for the intended use under their own responsibility. The "General Terms and Conditions of Delivery and Payment of the Paint Industry" in the recommendation approved by the Federal Cartel Office on 01 January 2018 shall apply. With the publication of this data sheet, all previous data sheets for this product lose their validity.

VAT no: DE147923895