

2K-Straßenmarkierung HB

2K Road Marking HB

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

General description

Material type: Low-solvent 2K high-solid paint based on modified epoxy resins

Area of use: The 2K Road Marking HB is ideal for lines and symbols (VZ) in outdoor areas that are exposed to high stress.

Suitable substrates: Bituminous substrates* (mastic asphalt, asphalt concrete), concrete and cement-bound substrates and interlocking paving stones.

To increase road safety and improve grip and durability, we recommend using Jansen reflective beads.

It is essential to scatter Jansen reflective beads promptly; please refer to the instructions for use.

* Large-scale application on asphalt surfaces is not recommended, as stress-related cracking may occur.

Product features:

- » Quick-drying
- » High wear resistance
- » High coverage
- » Clearly visible
- » Suitable for forklift traffic
- » Self-cleaning through weathering
- » Excellent chemical resistance

Colours:

Traffic white RAL 9016
Traffic yellow RAL 1023
Standard RAL colours on request

Package sizes:

6 kg base coat + 0.3 kg hardener
10 kg base coat + 0.5 kg hardener (on request)
35 kg base coat + 1.75 kg hardener (on request)

Technical data

Density:	Approx. 1.49 kg/l +/- 0.04 kg/l (with hardener)
Thinner:	If necessary, use max. 3% thinner for 2K Road Marking HB to adjust viscosity.
Viscosity:	According to DIN 53211: 25 -35 sec
Working temperature:	For the object and ambient air, preferably between +10°C and +25°C
Drying:	(23°C, 60% relative humidity) Dust dry: approx. 15 minutes, 30 minutes for thicker layers Can be reworked: after approx. 3 hours Fully loadable: after 6 hours » The second layer must be applied within a maximum of 3 days after application of the first coat. » If this period is exceeded, optimal chemical cross-linking of the coating can no longer be guaranteed. » To ensure perfect adhesion and surface quality, it is therefore essential to adhere to the specified time window. 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.

Consumption/range			
Wet film thickness	300 µ	400µ	600µ
Theoretical consumption*:	0.450 kg/m ²	0.59 kg/m ²	0.89 kg/m ²
Theoretical range / KG 10 cm line width	22 running metres	17 running metres	11 running metres

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

Substrate preparation:

The area to be marked must be completely dry, free of dust and separating substances (oil, grease, wax) as well as algae and moss. Remove brown discolouration caused by foliage using high-pressure cleaning. Humic acid contained in foliage has a negative effect on shelf life.

Chewing gum residue and other bonding difficulties must be removed mechanically.

Old markings: Check for adhesive strength and compatibility. Test coat required. If necessary, old markings must be removed using suitable mechanical methods.

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.). Despite pre-treatment, exposed aggregate road surfaces may experience adhesion problems that are not caused by the marking material. It is therefore recommended that trial markings be carried out before the final markings are made and that any concerns regarding the condition of the substrate be reported at an early stage.

Bituminous surfaces:

Chemical additives such as flux oils or oil-based release agents (e.g. for rollers) may be present on the surface of freshly laid bituminous surface courses. These substances interfere with adhesion and can lead to undesirable discolouration of the marking. As it is usually not possible to remove these residues mechanically, it is recommended that the surface layer be closed to traffic for a period of at least 4 to 6 weeks before applying markings. This ensures sufficient weathering and reduction of substances that interfere with adhesion.

Paving substrates:

Natural stone, artificial stone and composite stone paving are considered to be flexible substrates. Relative movements within the pavement structure and the ingress of moisture can lead to cracking, spalling and increased wear of the markings. No liability is accepted for any resulting damage. The visibility of the pavement joint structure in the marking does not constitute a defect in terms of liability for defects and is technically unavoidable due to the material and substrate.

Material preparation

20 parts by weight 2K Road Marking HB Base Coat
1 part by weight 2K Road Marking HB Hardener

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 stir the base coat until it is homogeneous. Then stir the hardener evenly into the base coat in the specified mixing ratio (20:1).

Care must be taken to ensure that the container wall zones are also included in the mixing process.

Finally, transfer into 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:

48 hours, after which the material is unusable.
The pot life is not apparent.

Application:

Jansen 2K Road Marking HB can be rolled on or applied using the airless method.

To ensure the traffic functionality of markings, it is essential to **immediately sprinkle Jansen Reflective Beads** onto the paint after it has been applied.

Quantity specification for Jansen after-spreading reflective beads: 480 g/m².

48 g per running metre at 10 cm.

Delayed gritting leads to:

- **insufficient embedding** of the refractory beads
- **Impairment of grip and visibility**
- **negative effects on road safety**

Apply a test coat before use

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

Type of application: Roller: Lambskin roller

Important note on roller:

When applying with a roller, bear in mind that the paint forms a skin quickly, so it must be applied swiftly.

Airless spraying: Specification for the optimum result

Important note on airless spraying:

1. In the event of prolonged interruptions to work, the premixed Jansen 2K Road Marking HB must be removed from the device in good time. Observe pot life.

2. Before refilling freshly mixed Jansen 2K Road Marking Paint HB with hardener component, it is recommended to first use up the **remaining quantity left in the marking machine from the previous day.**

This step is for:

- **Prevention of mixing materials with different degrees of maturity**
- **Ensuring consistent processing**
- **Reduction of colour deviations and adhesion problems**

Before refilling, the machine should be checked to ensure that it has been completely emptied and mixed.

Spraying information

Device	Nozzle/filter	Dynamic pressure	Spray pressure	Thinner
Wagner SF 21	LL413/411 HEA	200	100	3%
Graco GX FF	LL415/FFLP417	150	100	3%

Cleaning the tools: Thinner for 2K Road Marking HB

Special notes: **Environmental influences:** with increasing exposure time, factors such as sunlight, especially UV light, as well as water, dew and heat influence the intensity of the colour. This process is called chalking. Constant stress on the marking delays the process, but does not prevent it. This is not a defect, but a completely normal process.

Storage: Cool, dry and frost-free. Close the opened container tightly and store upside down.

Labelling

Please refer to our current safety data sheet on the Internet at
www.jansen.de

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 1 January 2018 shall apply. With the publication of this data sheet, all previous data sheets for this product lose their validity.

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