

Technical Data Sheet

EPOXI WV 2K floor seal



Scope of application

Water-diluted, carbon fibre-reinforced 2-component epoxy resin coating for drive-on floor coatings in private, moderately stressed commercial and industrial interior surfaces. Suitable for all mineral substrates, cement, magnesite and anhydrite screeds, concrete or hard asphalt, e.g. garage floors, bicycle storage basement, laundry and sanitary rooms, etc.

Product features

- Carbon-fibre reinforced
- Highly durable
- Highly impact and abrasion resistant
- "Forklift resistant"
- Resistant to plasticizer migration (tire-proof)
- Resistant to petrol and road salt
- Good cleaning possibility
- Diffusible

Limitation:

Routes that are used with standard pallet trucks (steel rollers) for pallets are not coated with EPOXI WV. Because of intensive use, only special coatings or coverings made of reactive resins are suitable for this, as they relieve pressure on the adhesion zone and thus better resist "wobbling off" due to mechanical stress.

Chemical resistance table based on DIN EN ISO 2812 at 20 °C

	7 days
Acetic acid, 5%	Resistant (discolouration)
Sulphuric acid, 20%	Resistant (discolouration)
Nitric acid, 10%	Resistant (discolouration)
Hydrochloric acid, 10%	Resistant (discolouration)
Ammonia, 25% (salmiak gas)	resistant
Xylene	resistant
Defroster	resistant
Petrol DIN 51 600	resistant
Skydrol (hydraulic fluid)	resistant
Shell Diala oil (transformer cooling fl.)	resistant

Test liquid size 5 * [mono- and polyvalent alcohols (up to max. 48% by volume methanol), glycol ethers]	resistant
Test liquid size 4 * [all hydrocarbons, as well as mixtures containing benzene with maximum of 5% benzene by volume]	resistant

* Complies with the construction and testing principles for the

DIBt water protection.

Classification of scope of application

Exterior 1	Exterior 2	Interior 1	Interior 2	Interior 3
-	-	+	+	+

(-) not suitable / (o) partially suitable / (+) suitable

Classification according to climatic conditions of the scope of application Please note the technical information "Classification of areas of application".

Gloss level

Silky gloss

Density

ca. 1.4 g/cm³

Material base

Water-diluted 2-component epoxy resin.

Dilution

Only after the base material and hardener have been thoroughly mixed can the primer be diluted with 10% water. Do not dilute intermediate and top coats.

Mixing ratio

Base mass: Hardener = 84 : 16 Parts by weight

Processing type

Brushing, rolling or spraying

Airless application:

Nozzle	0.015" - 0.017"
Spray pressure	min. 50 bar
Spray angle	45°

Reroll the material after spraying!

The right tool

Textured nylon roller with pile height 11 - 18 mm; e.g. ROTAny 11mm/18mm

The suitable primer

Not necessary

Substrate

The substrate must be stable, dimensionally stable, free of dust and oil and free of rubber abrasion, sinter layers, incorporated salts, etc.

Non-stable, heavily soiled surfaces, which are contaminated by oils, fats, rubber abrasion, etc., or have powdery or glassy cement stone, must be mechanically intensively prepared.

Treat oil stains with a commercially available oil remover. Intensively prepare usage parking and driving marks on garage since rubber abrasion, chlorides (de-icing salts), etc. have anti-adhesion effect. For hard asphalt screed, at least 75% of the aggregate must be visible after preparation. In principle, remove old 1K paint and loose 2K coatings. Please note the reference to DIN EN 13813.

Substrate strength:

Thin coatings can have little or no load-distributing function. Therefore, the respective substrate must be able to absorb the expected mechanical stresses. The tear strength must not be less than 1.5 N/mm². Hard asphalt screeds must correspond to hardness class IC 10 or IC 15.

Dehydration level:

Cement-bound substrates must be dry. In the case of concrete, the moisture content of the outer layer, 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%.

Danger of back-side moisture penetration:

All reactive resins are more or less sensitive to moisture penetration on the back. Therefore, concrete walls or floor slabs must be adequately protected from soil moisture by means of a rear moisture seal (DIN 18195). In the case of floor surfaces that do not have a basement and are not or only poorly sealed underneath, peeling damage and staining can occur due to the accumulation of moisture under the coating.

Paint system

Preparation:

Mixing ratio 84 : 16. First add the hardener and mix. Only dilute the mixture afterwards with the appropriate amount of water. In order to completely mix individual components, it is absolutely necessary to mix mechanically for at least 2 - 3 minutes (300 - max. 400 rpm) until the tint is streak-free. It is important to ensure that the container wall zones are also included in the mixing process. Then be sure to pour it into another container and mix thoroughly again. Only 100% homogeneous mixtures of both components in the correct mixing ratio result in perfect film properties.

Pot life:

Mixed material can be processed for approx. 90 minutes at 20 °C and 60% relative humidity. At temperatures above 20°C, the processing ability is reduced accordingly. The end of the pot life is apparent. Be sure to process the mixture within 90 minutes, as the material will then become unusable or lead to defects.

Painting:

Apply a primer coat to the substrate paint diluted with 10% water. Then apply a non-diluted intermediate and top coat. In general, a period of at least 16 hours and a maximum of 48 hours between coats is recommended. If waiting time is longer than 48 hours, the surface must be sanded mechanically until it whitens.

Processing instructions

- Changes in tint and signs of chalking are possible due to UV and weather influences.
- Organic dyes (e.g. in coffee, red wine or leaves) as well as various chemicals (e.g. disinfectants, acids, etc.) can lead to changes in colour.
- Abrasive stress can lead to scratching of the surface. This does not affect functionality.
- Always work wet on wet for uniform appearance.
- When rolling, apply material evenly (adhere to the specified material consumption) and re-roll in a criss-cross pattern. For larger areas, work with several people, if necessary divide the area into fields.
- Always use material from one batch on contiguous surfaces.
- Do not use materials containing silicone in the area before or during the sealing process, as they can lead to surface defects.

Status: 01/2024

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- The minimum temperature for the substrate and circulating air should be 10 °C and the relative humidity should not exceed 80%.
- **Note on slip prevention:**
In order to achieve an anti-slip final coating, after the material has been prepared, add 5% by weight of micro solid glass beads and mix well again. Then carry out the painting process as described above.
- **Important note:**
If you have little or no knowledge of processing 2K products, you should seek special advice from KRAUTOL. This also applies to different processing procedures (e.g. substrate types different from those shown here). Please contact the telephone number at the bottom of the technical Data Sheet.

Consumption

Approx. 200 g/m² per work step. Please determine the exact consumption using a test coating. Excessive consumption leads to differences in gloss and reaction problems.

Drying

At 23 °C and 60% relative humidity, surface can be over painted and accessed after approx. 24 hours, and slight mechanical stress after 3 days. Full resilience after approx. 7 days. At lower temperatures and higher humidity, these durations are longer. Too high humidity can lead to matt surfaces. Ensure good ventilation during processing and drying and protect the coated surface from moisture, otherwise reaction problems, reduced adhesion and differences in gloss may occur.

Cleaning the tools

Immediately after use with warm, soapy water. Do not allow material to dry.

Storage

Store in a cool, dry and tightly closed place in a well-ventilated place. Stored in the original sealed container for approx. 2 years.

Please note

Solid mass and hardener: Attention Causes skin irritation. Can cause allergic skin reactions. Causes serious eye

irritation. Toxic to aquatic life with long lasting effects. Do not allow to get into the eyes, on skin or on clothing. Wash hands thoroughly after use. Avoid release to the environment. Wear protective gloves/eye protection. In case of skin irritation: Get medical advice/attention.

If eye irritation persists Get medical advice/attention in case of persisting eye irritation: Get medical advice/attention.

If eye irritation persists Only for commercial users. Use dust filter P2 for sanding work. Do not inhale spray mist. Use combination filter A2/P2.

Allergy hotline

+ 49 (0) 800/1895000 (free from German landlines)

Product code for paints and varnishes / GISCODE

RE1

VOC content

EU limit for the VOC content of this product: (cat. A/j): 140 g/l (2010). This product contains a maximum of 10 g/l VOC.

Disposal

Only completely empty containers may be recycled. Dispose of contents and container in accordance with local, regional, national and international regulations. Dispose of liquid material residues at the collection point for waste paints/varnishes, dried material residues as construction and demolition waste or as municipal or household waste.

Container sizes

	5 kg	10 kg
Pebble grey	•	
Concrete gray	•	

Factory tint *		•
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* Any tint, after feasibility check

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