



DisboPOX W 443 2C-EP-Primer

Water-thinnable, transparent, 2-component liquid epoxy resin primer and impregnating agent for mineral flooring.

Product Description

Field of Application	Transparent impregnating agent on mineral based flooring and suitable as a primer before applying water-thinnable epoxy floor coatings. Due to the emission-minimised, ecologically compatible formula, particularly suitable for all "sensitive/delicate" areas, as e.g. lounges, hospitals, nurseries, play schools, schools, etc.	
Material Properties	<ul style="list-style-type: none"> ■ Allows water vapour diffusion ■ Suitable for matt-moist, cement-based surfaces ■ Emission-minimised, technically controlled and supervised 	
	<p>Tested according to the AgBB testing criteria for VOC emissions from building materials used in interior areas. The criteria of the AgBB (Ausschuss zur gesundheitlichen Bewertung von Bauprodukten; Commission for the sanitary evaluation of building material) are elaborated by the ecological and sanitary authorities for the use of building material in »delicate/sensitive« areas, as e.g. lounges.</p>	
Material Base / Vehicle	Water-thinnable, 2-component liquid epoxy resin.	
Packaging/Package Size	5 kg, 10 kg plastic combination-packaging	
Colours	Transparent	
Gloss Level	Glossy	
Storage	Store cool, dry, frost-free. Tightly closed original packaging has a minimum shelf life of 1 year. If stored at low temperatures, the material should be stored at 20 °C before application.	
Technical Data	<ul style="list-style-type: none"> ■ Density: ■ Dry film thickness: ■ Resistance-count for diffusion μ (H₂O): 	<p>approx. 1.0 g/cm³ approx. 30 μm/100 g/m² approx. 38,000</p>

Application

Suitable Substrates	Mineral based substrates indoors (e.g. concrete, cement-, anhydrite- and magnesite-screeds). The substrates must be sound, dry, dimensionally stable, and free from all materials that may prevent good adhesion, e.g. release agents, dust, oil or abraded rubber contamination (skid-marks). Cementitious levelling mortars, ameliorated with synthetic resins, need to be checked for their coating capability.
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	<p>Cement-bound hard aggregate screed, concrete with hard dry-shake on mixtures as well as surfaces which have been treated with chemical additives, need to be mechanically prepared intensively (cross-wise shot blasting).</p> <p>If DisboPOX W 443 is used as primer for subsequent coatings, the following requirements additionally apply. The average adhesion tensile strength of surfaces must be 1.5 N/mm² with a single minimum value of 1.0 N/mm². Freshly applied concrete or cement-based composition floors / screed must be dried to a matt surface aspect (without forming a glossy film). Other substrates should have achieved their equivalent humidity: Anhydrite screed: max. 1% by weight Magnesite screed: 2–4 % by weight Magnesium oxychloride screed: (Xylolite) 4–8 % by weight</p>
Substrate Preparation	<p>Substrate need to be prepared by suitable measures, e.g. shot blasting, milling or grinding, meeting the the above mentioned requirements.</p> <p>Unsound substrates, glassy hardened cement paste and other contamination need to be intensely prepared by mechanical methods respectively removed. Existing coatings need to be removed.</p> <p>Repair spillings and defects with Disbocret® PCC mortars or Disboxid EP mortars, flush with the surface.</p> <p>Materials which consist of silicon should not be used before and during the coating process within the area to be coated as it may leads to surface defects.</p> <p>The BEB-Workingsheet KH-0/U*, the BEB-Workingsheet KH 1* as well as the Table 2.5 of the maintenance guideline, Part II of the German committee for reinforced concrete need to be taken into account.</p>
Preparation of Material	<p>Add the Comp. B (hardener) to the Comp. B (base material) and stir intensively with a low-speed electrical paddle (agitator / max. 400 rpm). Pour the mixture into another clean container and stir intensively again (Do not apply material out of the delivered container). Add the required quantity of tap water (max. 5% by weight) for thinning, if necessary, and continue stirring.</p>
Mixing Ratio	<p>Comp. A (base material) : Comp. B (hardener) = 4 : 1 parts by weight</p>
Method of Application	<p>Depending on the way of application with a sealer brush, short fibre roller or airless spraying equipment. During the application stir the material from time to time.</p> <p>When using the material as impregnation a so called "cheering on" of the substrate appears. On irregularly absorbent substrates, shine and tint distortions may appear. To achieve a constant and even appearance always apply the material wet in wet, split larger areas into smaller fields. In Coherent areas always use material from one and the same batch.</p>
Surface Coating System	<p>Thin with max. 5 % by weight of tap (potable) water for impregnating / sealing mineral substrates, depending on the absorbency and desired layer thickness. Suitable spraying equipment: Airless unit (nozzle size 0.08").</p> <p>Priming absorbent, mineral substrates before applying water-thinnable coatings Apply the material intensively by sealer brush in one uniform coat.</p> <p>Impregnating/sealing absorbent, mineral substrates Apply one or two coats. The first coat should be applied with a sealer brush and the second coat preferably using a short-fibre roller or spraying unit.</p>
Consumption	<p>For absorbent substrates approx. 200 g/m² of diluted or undiluted material per application. The exact rate of consumption is best established by a trial coating on site.</p>
Workability	<p>Workability at 20 °C and 60% relative humidity, approx. 60 minutes. Higher temperatures shorten and lower temperatures extend the potlife. Note: The end of potlife is not recognisable.</p>
Application Conditions	<p style="border: 1px solid black; padding: 5px;">Note: The end of potlife is not recognisable.</p> <p>Material, atmospheric, and substrate temperature min. of 12 °C and max. of 30 °C during application and drying. Relative humidity must not exceed 80%. Substrate temperature always should be min. 3 °C above the dew point temperature. During drying phasis ensure a proper ventilation, as due to the evaporation of the consisting water the humidity may increases. Protect against draft.</p>
Waiting Time	<p>The waiting time between coats varies from min. 16 to max. 24 hours at 20 °C, the same for following coats of pigmented materials with proper diffusion. If the waiting time lasts more, the surface must be roughened with a sander/grinder. Higher temperatures shorten and lower temperatures extend the given period.</p>
Drying/Drying Time	<p>At 20 °C and 60% relative humidity, walkable after approx. 16 hours. After 7 days the floor is mechanically and chemically resilient . At lower temperatures the drying time is correspondingly longer. Protect the coating from moisture during the curing process (approx. 24 hours at 20 °C), otherwise surface failures and diminished adhesion may occur.</p>
Tool Cleaning	<p>Immediately after use or during longer breaks with water or warm soapy water.</p>

Advice

German Certificates

Latest technical certificates on request.

Cleaning and Maintenance

Discolouration and chalking effect may occur with weathering and UV light exposure. The pigmentation in, e.g. coffee, red wine or leaves (organic dyes) and various chemicals (e.g. disinfectants, acids, etc.) may cause discolouration. The functionality of the coating will not be affected by these changes.

Special Risks (Hazard Note) / Safety Advice (Status as at Date of Publication)

For professional use only.

Component A / Base material:

Causes serious eye damage. Wear protective gloves/ eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. Contains: epoxy resin-amine adduct.

Component B / Hardener:

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic to aquatic life with long lasting effects. Do not get in eyes, on skin, or on clothing. Wash skin thoroughly after handling. Avoid release to the environment. Wear protective gloves/ eye protection. If eye irritation persists: Get medical advice/ attention. Take off contaminated clothing and wash it before reuse. Contains: bis-propane, bisphenol-F epoxy resin MW <700, p-tert-butylphenyl 1-(2,3-epoxy)propyl ether.

Disposal

Materials and all related packaging must be disposed of in a safe way in accordance with the full requirements of the local, regional, national and international authorities. Uncured product residues and unpurified packaging should be disposed of as hazardous waste. Material residues: Allow the basic substance to harden with hardener and dispose of as paint waste. Waste should not be disposed of via wastewater.

EU limit value for the VOC content

of this product (category A/j): 140 g/l (2010). This product contains max. 50 g/l of VOC.


Giscode

RE 10

Further Details

See Material Safety Data Sheets. Observe our special application indications for applying Disbon materials as well as the cleaning and maintenance advise for floors.

CE Labelling

	
Disbon GmbH	
Roßdörfer Straße 50, D-64372 Ober-Ramstadt	
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DIS-443-001235 EN 13813:2002	
Synthetic resin screed/synthetic resin coating for indoor application EN 13813:SR-E _{fl} -B1,5-AR1-IR4	
Fire behavior	E _{fl}
Release of corrosive substances	SR
Water permeability	NPD
Wear resistance	≤ AR1
Adhesive tensile strength	≥ B1,5
Impact resistance	≥ IR4

EN 13813

CE labelling is based on EN 13813 "Screed mortars, screed compounds and screeds – screed mortars and screed compounds – Properties and Requirements" defining the requirements for screed mortars being used for floor constructions in the interiors. The standard also include synthetic resin coatings and sealing.

Products matching the above mentioned standards are to be labelled with the CE mark. Additional engineer standards are effective for the use in Germany in structural safety relevant areas. Conformity is documented by the Ü sign (Überwachung = supervision) on the container. Established by documented evidence of conformity 2+ with controls and tests on the part of the manufacturer and notified bodys.

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All suggestions and application instructions herein are based on our latest technical experience. Due to the wide variety of individual project conditions, we cannot be held responsible for their content. These instructions do not release the purchaser/ applicator from his responsibility to determine the suitability of the product in consideration of the project characteristics. These instructions are to be considered void when a new edition is released. Our general conditions of sale and delivery in their latest edition apply. This document is a translation of our German Technical Information No.443 · DisboPOX W 443 2C-EP-Primer · Issued: July 2023

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