



# Disbopox 443 EP-Imprägnierung

EP Impregnating Agent · Water-thinnable, transparent, 2-component liquid epoxy resin primer and impregnating agent for mineral floor spaces. Emission-minimised, technically controlled and supervised (TÜV)

## Product Description

Field of Application	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. Suitable as a transparent impregnating agent on mineral floor spaces. Suitable as a primer before applying water-thinnable epoxy floor coatings.
Material Properties	<ul style="list-style-type: none"> <li>■ Allows water vapour diffusion</li> <li>■ Suitable for matt-moist, cement-based surfaces</li> <li>■ Good chemical resistance</li> <li>■ Emission-minimised, technically controlled and supervised (TÜV)</li> <li>■ General Building Approval by the German Institute for Structural Engineering</li> </ul> <p>Tested according to the AgBB testing criteria for VOC emissions from building materials used in interior areas. The criteria of the AgBB (<b>A</b> usschuss zur <b>g</b> esundheitlichen <b>B</b> ewertung von <b>B</b> auprodukten; 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	10 kg plastic combi-packaging 5 kg plastic combi-packaging
Colours	Transparent.  Discolouration and chalking effect may occur with weathering and UV light exposure. The pigmentation in, e.g. coffee, red wine or leaves (organic dyestuffs) and various chemicals (e.g. disinfectants, acids, etc.) may cause discolouration. The efficiency of the coating will not be affected by these changes.
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"> <li>■ Density: approx. 1.0 g/cm<sup>3</sup></li> <li>■ Dry film thickness: approx. 30 µm/100 g/m<sup>2</sup></li> <li>■ Resistance-count for diffusion µ (H<sub>2</sub>O): approx. 38,000</li> </ul>



## Application

Suitable Substrates	<p>All types of mineral substrates, 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). Check cementitious levelling mortars, ameliorated with synthetic resins, for suitability and apply a trial coating, if necessary. If Disbopox 443 EP Impregnating Agent is used as primer for subsequent coatings, the following requirements additionally apply.</p> <p>The average adhesion tensile strength of surfaces must be 1.5 N/mm<sup>2</sup> with a single minimum value of 1.0 N/mm<sup>2</sup>. Freshly applied concrete or cement-based composition floors / screed must be dried to a matt surface aspect (without forming a glossy film).</p> <p>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>Prepare the substrate by suitable means, e.g. shot peening, milling or grinding, fulfilling all requirements. Repair spillings and defects with Disbocret® PCC mortars or Disboxid EP mortars, flush with the surface.</p>
Preparation of Material	<p>Add the hardener to the base material and stir intensively with a low-speed electrical paddle (agitator / max. 400 rpm). Pour the mixture into another clean container. Add the required quantity of tap water (max. 5% by weight) for thinning, if necessary, and continue stirring.</p>
Mixing Ratio	<p>Base material: Hardener = 4 : 1 parts by wt.</p>
Method of Application	<p>The material can be applied with a sealer brush, short-fibre roller or airless spraying equipment. Stir the material occasionally during application.</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><b>Priming absorbent, mineral substrates before applying water-thinnable coatings</b>                  Apply the material intensively by sealer brush in one uniform coat.</p> <p><b>Impregnating/sealing absorbent, mineral substrates</b>                  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/m<sup>2</sup> 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.</p> <p>Note: The end of potlife is not recognisable.</p>
Application Conditions	<p><b>Material, atmospheric, and substrate temperature</b>                  must remain at a 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.</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. 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. 1 day. Ready for mechanical stress (loads) after approx. 3 days and completely hardened after approx. 7 days.                  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	<p>■ 1-1242 General Building Approval for the use in living spaces Z-156.605-639, German Institute for Structural Engineering, Berlin</p>
Special Risks (Hazard Note) / Safety Advice (Status as at Date of Publication)	<p>For professional use only.</p> <p><i>Base material:</i> Irritating to skin. Risk of serious damage to eyes. Keep out of reach of children. Wear suitable gloves and eye/face protection. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. On contact with skin, wash immediately with plenty of water and soap. Do not empty into drains, water courses or onto the ground. Do not breathe vapour/spray dust. In case of insufficient ventilation, wear suitable respiratory equipment.</p>

*Hardener:* Irritating to eyes and skin. May cause sensitization by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Do not breathe vapour/spray dust. Avoid contact with skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. On contact with skin, wash immediately with plenty of water and soap. Do not empty into drains, water courses or onto the ground. Wear suitable gloves and eye/face protection. In case of insufficient ventilation, wear suitable respiratory equipment. Use only in wellventilated areas. Contains epoxy-based compounds. See information (Material Safety Data Sheets) supplied by the manufacturer.

**Disposal** Materials and all related packaging must be disposed of in a safe way in accordance with the full requirements of the local authorities. Particular attention should be paid to removing wastage from site in compliance with standard construction site procedures. Do not dispose of via domestic waste. In Germany: Only completely emptied packaging should be given for recycling. Dispose of liquid and hardened material as paint waste containing organic solvents or other dangerous substances.

**EU limit value for the VOC content** of this product (category A/j): 140 g/l (2010). This product contains max. 80 g/l of VOC.

**Giscode** RE 2

**Further Details** See Material Safety Data Sheets.  
Observe our special application indications for applying Disbon materials.

**CE Labelling** 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.

**Technical Assistance** As it is impossible to list herein the wide variety of substrates and their specific problems, please request our technical assistance in case of queries. We will describe appropriate working methods, if a substrate not specified above is to be coated.

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