



DisboPUR A 326

Rapid curing, pigmented two-component polyaspartic-resin based floor coating

Product Description

Field of Application	Floor coating for indoor and outdoor mineral surfaces, and for indoor hard asphalt surfaces. Specially suitable for rapid renovations of bearing epoxy coatings and semi-rigid polyurethane coatings.
Material Properties	<ul style="list-style-type: none"> ■ Rapid curing ■ Highly UV-light resistant, weatherproof and color stability ■ Semi-rigid ■ Good chemical resistance ■ Free from lacquer wetting disturbant substances ■ Solvent-free and low-odor ■ Low emission (AgBB-compliant)

Tested according to the AgBB testing criteria for VOC emissions from building materials used in interior areas. The criteria of the AgBB (**A**usschuss zur **g**esundheitlichen **B**ewertung von **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.

Material Base / Vehicle	two-component resin based on aspartic acid ester
Packaging/Package Size	7 kg combined tin packaging 24.5 kg tin packaging (base / Component A: 17.5 kg tin hobbock, hardener / Component B: 7 kg tin bucket)
Colours	Standard color ca. RAL 7032 Individual colors are available upon request. Organic dyes and colorants (e.g. in leaves) and various chemicals (e.g. disinfectants, acids, etc.) may cause discolouration. Abrasive stress may cause visible scratches in the surface. Proper functioning of the coating will not be affected by these changes.
Gloss Level	Gloss
Storage	Keep in a cool, dry, and frost-free place. Shelf life of the original, tightly closed container: Minimum 9 months.



Technical Data

■ Density:	approx. 1.4 g/cm ³
■ Dry film thickness:	approx. 72 µm/100 g/m ²
■ Abrasion to Taber (CS 10/1000 U/1000 g):	approx. 52 mg/30 cm ²
■ Shore hardness (A/D):	approx. D 76
■ Ultimate elongation to DIN 53504:	ca. 15% (500 µm coat thickness)
■ Viscosity:	approx. 1700 mPas

Chemical resistance

Chemical Resistance Table according to DIN EN ISO 2812-3:2007 at 20 °C		
Chemical group		
1	Super and normal grade gasoline (acc. to DIN EN 228) with maximum 5 Vol% added bio-alcohol	3 days
3	Heating oil EL (acc. to DIN 51 603-1), unused combustion engine motor oils and unused motor vehicle transmission oils, mixtures of saturated and aromatic hydrocarbons with <20% share of aromatic compounds and a flash point >55 °C	> 7 days
4	All hydrocarbons as well as benzene-containing mixtures with max. 5 Vol% benzene.	1 day
5	Mono- and polyvalent alcohols (up to max. 48 Vol% methanol), glycol ether	1 day
7b	Biodiesel (acc. to DIN EN 14214)	> 7 days
9	Aqueous solutions of inorganic acids (carbonic acids) up to 10%, as well as their salts (in aqueous solution)	3 days
10	Mineral acids up to 20% as well as their salts in aqueous solution (pH<6), except hydrofluoric acid and oxidising acids and their salts.	> 7 days (D)
	Sulphuric acid 38%	> 7 days (D)
	Brake fluid DOT 4	3 days
	Antifreeze fluid / Glysantin	> 7 days
	Skydrol LD4	> 7 days (D)
	Red wine	> 7 days
(D) = discoloration		

Application

Suitable Substrates

All concrete and cement screeds indoor and outdoor floor surfaces, and indoor hard asphalt surfaces. The substrate must be dry, capable of bearing a load, dimensionally stable, firm and be free of all loose material, dust, oils, grease, rubber abrasion and other substances that may prevent good adhesion.

The compressive strength of the substrate must be > 25 N/mm². Cement-based self-levelling screeds treated with plastic are to be tested to ensure they coat properly, if necessary, try out using test areas. The average adhesive tensile strength must be 1.5 N/mm² - the lowest single minimum value should not be less than 1.0 N/mm². Substrates must have achieved their equilibrium moisture content (EMC): Concrete and cement screed: max. 4% by weight (CM method). Testing methods for the above-mentioned values acc. to the DAfStb, Repair Guideline, Part 3.

The hard asphalt substrates must fulfil the hardness class <IC 15 and should not deform under the exposed mechanical loads and weather conditions.

Old bearing epoxy or semi-rigid polyurethane coatings.

Other types of substrates and/or procedures may require the special advisory service provided by DISBON.

Substrate Preparation

For mineral and hard asphalt substrates
 Prepare the existing cement-based substrate very thoroughly by shot-blasting with solid shot/grit (shot blasting) – avoid creating dust by using vacuum suction simultaneously. The degree to which lower adhering layers should be removed depends upon the pressure, type and amount of shot-blasting medium used. Grinding is only permissible for small areas (treating edges), except for preparatory work using diamond grinding techniques to remove layers of lower adherence.
 Furthermore, follow the BEB worksheets KH-0/U* and KH 3* as well as Table 2.5 of the guidelines "Schutz und Instandsetzung von Betonbauteilen / Protection and Repair of Concrete Elements", Part 2 of the "Deutscher Ausschuss für Stahlbeton / German Association for Reinforced Concrete".
 Repair broken-off and defective areas in the substrate with Disbocret® PCC mortar or Disboxid EP mortar, filling them flush with the surface.
 Silicone-containing materials are not permitted to be in the environment before and during the entire coating procedure, as these lead to surface defects. Fibrous substrates (steel or plastic fibres) must temporarily be sanded after the first coat and given an undercoat again, so that no "wick effect" can occur.
 For hard asphalt screeds, the aggregate must be at least 75% visible after preparation. For bearing, rigid epoxy and semi-rigid polyurethane coatings, clean the surface and sand or shot blast until the stress whitening. Remove the sanding dust thoroughly.

* Bundesverband Estrich und Belag e.V., 53842 Troisdorf-Oberlar, Germany

Preparation of Material

Stir component A (base material), adding component B (hardener). Mix intensively using a low-speed paddle mixer (max. 400 rpm) until a homogeneous colour shade, free of streaks, is achieved. Pour the mixture into another clean mixing vessel and continue mixing thoroughly. The material must not be diluted. If necessary, (e.g. for vertical surfaces) DisboPUR A 326 can be thixotropic by the addition of max. 1% weight of Disbon 913-PU Stellmittel.

The material temperature should be 15-20°C.

Mixing Ratio

Component A (base) : component B (hardener) = 5 : 2 parts by weight

Method of Application

Roller application using a hard rubber scraper and short or medium-piled roller.
 Structured coatings using a smooth trowel and solvent-resistant structuring roller (coarse moltoprene roller).
 Due to the short pot life, ensure that the material is applied quickly. For mixing, application and rolling and/or structuring, at least 3 employees are required. This may be correspondingly more for large areas.
 When using roller and structured coatings, making roller marks cannot be completely avoided. In the case of gritted surfaces, the blinding layer has to be applied with an even layer thickness, as otherwise differences in structure will show.
 In order to assess the surface result, sample areas may have to be prepared under realistic conditions for the object in question.

If applied with a notcher spreader, the elected three corner toothing doesn't automatically guarantee the recommended material consumption.

Surface Coating System

Primer Coat

Prime mineral substrates with Disboxid 462 EP-Siegel Neu to fill all pores. Rough substrates should in addition be levelled using a scratch coat (primer mixed with quartz sand). In order to accelerate the hardening process as well as to achieve a faster processing time, the primer can be mixed with 5.5% Disboxid 903 EP-Rapid.

According to requirements, the following alternatives may be used:

Disboxid 420 E.MI Primer
 Disboxid 460 EP-Ground
 Disboxid 461 EP-Filler Neu

Detailed information is provided in the respective TI sheet.

Prime indoor hard asphalt substrates with DisboPUR A 326 to fill all pores, with a hard rubber smoothing trowel or scraper. Rough, porous asphalt substrates should be levelled with a scratch coat (mixed with quartz sand)

DisboPUR A 326, 1.0 weight unit
 Disboxid 942 Mischquarz, 0.5 weight units

In the case of favourable object conditions, DisboPUR A 326 can be applied directly to the mineral substrate without priming. Preliminary trials to test the bonding adhesion are in this case absolutely necessary.

Finishing (Top) Coat Smooth Surfaces

Smooth Surfaces

Pour DisboPUR A 326 onto the surface and spread evenly with a (2 mm) hard rubber scraper, and roll with a medium-piled roller crosswise and lengthwise. Apply the second coat at the earliest after 2 hours and at the latest after 24 hours.

Anti-slip Surfaces (R 11 V4)

Proceed as described under “roller coating / smooth surfaces”, however, scatter Disboxid 943 Einstreuquarz into the first and still fresh layer of coating. Sweep off any loose sand after the coating has been allowed to dry. In turn, undertake the final coating by distributing DisboPUR A 326 evenly over the surface with a rubber slider and then rolling in a cross-wise manner using a roller.

Anti-slip Surfaces with Higher Layer Thicknesses

After the material has been re-potted under stirring, add approx. 40 wt.% Disboxid 942 Mischquarz (0.1 – 0.4 mm) with stirring and pour onto the surface. Distribute evenly using a hard rubber scraper, 3 mm. After approx. 10 minutes, scatter Disboxid 943 Einstreuquarz into the first and still fresh layer of coating. Sweep off any loose sand after the coating has been allowed to dry. In turn, undertake the final coating by distributing DisboPUR A 326 evenly over the surface with a rubber slider and then rolling in a cross-wise manner using a roller.

Structured Surfaces (R 10)

Proceed as described under “roller coating / smooth surfaces” for the first coating. For the 2nd application add to the material approx. 50 wt.% Disboxid 942 Mischquarz and approx. 25 wt.% Disboxid 943 Einstreuquarz. Apply a thin coat with a stainless steel smoothing trowel, drawing it sharply across the surface. The surface has to be rolled with a coarse moltoprene roller immediately afterwards in a cross-wise manner. The surface can be walked on wearing nailed boots.

Consumption

Primer coat	
Mineral substrates	see corresponding TI
Indoor hard asphalt	
<i>Primer</i> DisboPUR A 326	approx. 400–600 g/m ²
Scratch coat DisboPUR A 326 Disboxid 942 Mischquarz	approx. 1.2 kg/mm/m ² approx. 0.6 kg/mm/m ²
Roller coat, Smooth Surfaces DisboPUR A 326	approx. 400-600 g/m ² per application
Roller coat, Anti-slip Surfaces <i>Scatter layer:</i> DisboPUR A 326 <i>Scattering:</i> Disboxid 943 Einstreuquarz* <i>Sealing:</i> DisboPUR A 326	approx. 400-600g/m ² approx. 3 kg/m ² approx. 600-900 g/m ²
Anti-slip Surfaces with Higher Layer Thicknesses <i>Scatter Layer:</i> DisboPUR A 326 Disboxid 942 Mischquarz <i>Scattering:</i> Disboxid 943 Einstreuquarz* <i>Sealing:</i> DisboPUR A 326	approx. 800 g/m ² approx. 320 g/m ² approx. 4 kg/m ² approx. 600-900 g/m ²
Structured Surfaces <i>First Layer:</i> DisboPUR A 326 <i>Second Layer:</i> DisboPUR A 326 Disboxid 942 Mischquarz Disboxid 943 Einstreuquarz	approx. 400-600 g/m ² approx. 500-600 g/m ² approx. 250-300 g/m ² approx. 125-150 g/m ²

* Alternative, Disboxid 944 Einstreuquarz or granite grit 0.5-1.0 mm

Determine the exact amount of material required by coating a test area on site.

Consumption of the top sealing coat on scattered coatings may vary due to temperature influences, type of working method, tools and differences in materials used for scattering.

Workability

Temperature	Pot-life
5 °C	20 - 25 minutes
10 °C	20 - 25 minutes
20 °C	20 - 25 minutes
30 °C	approx. 15 minutes

Application Conditions

Material, ambient air and substrate temperatures: at least 3 °C, max. 30 °C.

The relative humidity must not exceed 70 %. Moisture acts as a catalyst and accelerates the reaction.

The substrate temperature should always be min. 3 °C above the temperature of the dew point.

Waiting Time

Waiting times between working steps should be at least 2.5 and max. 24 hours at 20 °C.

In the case of longer waiting times, the surface of the preceding coat must be roughened slightly if it has not been sanded. The quoted times are shortened at higher temperatures and prolonged at lower temperatures.

Drying/Drying Time

At 20 °C and 60% relative humidity, surfaces can be walked on after approx. 2.5 hours, and after approx. 3 days able to withstand full mechanical loads. Lower temperatures extend the curing time. Exceeding the given consumption values can lead to delayed hardening. Protect the material applied during the hardening process from moisture.

Tool Cleaning

Perform immediately after use and during longer working breaks using Disbocolor 419 Verdünner.

Advice

German Certificates

Current information upon request.

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

Restricted to professional users.

Base / Component A:

May cause an allergic skin reaction. Causes serious eye irritation. Harmful to aquatic life with long lasting effects. Wash skin thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Contains: tetraethyl N,N'-(methylenedicyclohexane-4,1-diyl)bis-DI-aspartate, Asparaginsäureester.

Hardener / Component B:

May cause an allergic skin reaction. Harmful if inhaled. May cause respiratory irritation. Do not breathe vapours/spray. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. Contains: aliphatic polyisocyanates, hexamethylene diisocyanate. Contains isocyanates. May produce an allergic reaction.

Disposal

Only completely empty containers should be handed in for recycling. Material residues: Allow the base substance to harden with a hardener and dispose of as paint waste. Uncured product residues are to be treated as special/hazardous waste. EAK 080111

EU limit value for the VOC content

of this product (category A/j): 500 g/l (2010). This product contains max. 15 g/l VOC.

Giscode


PU40

Further Details

See Material Safety Data Sheets (MSDS).

When using this material, the building protection processing guidelines as well as the DISBON advice for care/cleaning and maintenance of floor space should be observed.

CE Labelling

	
Disbon GmbH Roßdörfer Straße 50, D-64372 Ober-Ramstadt 16	
DIS-326-015100 EN 13813:2002	
Synthetic screed/synthetic coating for interior use EN 13813:SR-B _{fl-s1} -B1,5-AR1-IR4	
Reaction to fire	B _{fl-s1}
Release of corrosive substances	SR
Water permeability	NPD
Wear resistance	≤ AR1
Adhesive tensile strength	≥ B1,5
Impact strength	≥ IR4

EN 13813

CE labelling is based on EN 13813 "Screed mortars, screed compounds and screeds – screed mortars and screed compounds – Properties and Requirements" defines the requirements for screed mortar which is used for floor constructions in interiors. The standard also includes synthetic resin coatings and sealers.

Products matching the above-mentioned standard are to be labelled using the CE mark on the container. The declaration of performance according to BauPVO can be found in the internet under www.disbon.com.

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