

Disbon 400 BodenFinish

One-component, abrasion-resistant, dispersion coating for interior and exterior floor spaces.
 Certificated for oil collecting basins in the interiors.



Product Description

Field of Application	Dispersion-based protective coating for interior and exterior mineral floorages subjected to normal pedestrian traffic loads. Do not use on floorages with traffic loads or surfaces subjected to stagnant water and permanent moisture. Certificated as coating for collecting (overspill/catch) basins within closed buildings, used for the storage of fuel oil (heating oil) type EL and unused motor and gear oils.
Material Properties	<ul style="list-style-type: none"> ■ Low odour ■ Water-thinnable (dilutable with tap water) ■ Ecologically compatible ■ Oil resistant ■ Abrasion resistant
Material Base / Vehicle	Dispersion (emulsion)
Packaging/Package Size	<ul style="list-style-type: none"> ■ Standard: 2.5 litres, 5 litres, 12.5 litres plastic buckets ■ ColorExpress: 12.5 litres plastic bucket
Colours	<ul style="list-style-type: none"> ■ Standard: 2.5 l and 5 litres plastic buckets: Hellgrau (Light Grey), Kieselgrau (Gravel Grey), Mittelgrau (Medium Grey). 12.5 litres plastic bucket: Hellgrau (Light Grey), Kieselgrau (Gravel Grey), Mittelgrau (Medium Grey), Betongrau (Concrete Grey). Special tints are available on request. ■ ColorExpress: Over 28,000 colour shades are available in the ColorExpress stations. Exclusive colouring is possible due to colour shades of the FloorColor plus collection. Depending on the shade, base 1, base 2 or base 3 can be mixed via ColorExpress stations. Note: Tinted materials (ColorExpress tones) cannot be used for oil collecting/catch basins. <p>The colourants in e.g. coffee, red wine or leaves (organic dyestuffs) and various chemicals, e.g. disinfectants, acids, etc., may cause discolouration. Proper functioning of the coating will not be affected by these changes.</p>
Gloss Level	Silk-matt/semi-gloss (mid sheen / velvet or eggshell-like finish)
Storage	Keep in a cool, dry, and frost-free place. Shelf life of the original, tightly closed packaging: Minimum 2 years. If temperatures are low, the material should be stored at 20 °C before application.



Technical Data

■ Density:	Approx. 1.3 g/cm ³
■ Dry film thickness:	Approx. 45 µm/100 ml/m ²
■ Resistance-count for diffusion µ (H ₂ O):	Approx. 2.500
■ Abrasion to Taber (CS 10/1000 U/1000 g):	210 mg/30 cm ²
■ Ultimate elongation to DIN 53504:	Approx. 40 %

Application

Suitable Substrates

Mineral substrates, e.g. concrete, cement-based composition floor (screed), render/plaster, masonry, and floorages with sound, adherent coats of unplasticized paint.
The substrates must be sound, dimensionally stable, solid and free from all materials that may prevent good adhesion, e.g. loose/brittle materials, dust, oils, fats/greases or abraded rubber contamination (scuff/skid marks). Cementitious flow mortars, ameliorated with synthetic resin, must be checked for compatibility by trial application, if necessary.
The adhesive tensile (pull-off) strength of substrates must be ≥ 1.0 N/mm².
Substrates must have achieved their equilibrium humidity:
Concrete and cement-based composition floor (screed): max. 5 % by weight
Anhydrite screed: max. 1 % by weight
Magnesite screed: 2 – 4 % by weight
Xylo-lite (Magnesium Oxychloride) screed: 4 – 8 % by weight

Substrate Preparation

Prepare the substrate by suitable means, in order to fulfil the above mentioned requirements. Always remove unsound 1-component coatings and non-adherent coats of paint.
Clean adherent one-component coatings and sound, adherent existing coats of unplasticized dispersion/emulsion paint.
Clean and roughen rigid, sound (adherent) 2-component coatings or prime with Disbon 481 EP-Uniprimer.
Repair spallings and defects with Disbocret® PCC mortars, filling them flush with the surface.

Preparation of Material

The material is ready for use. Stir thoroughly before application.

Method of Application

The material can be applied by paint brush, roller or spraying equipment (airless unit, nozzle size 0.013 to 0.015 inch).

Surface Coating System

Priming Coat (interior)

of Disbon 400 BodenFinish, diluted with 30 % of tap (potable) water.

Priming Coat (exterior)

with CapaSol LF Concentrate, diluted with tap water in the ratio 1 : 2 (parts by volume) or prime with undiluted OptiGrund E.L.F.

Coating

Crack-free substrates:

Apply two coats of undiluted Disbon 400 BodenFinish.

Coating of oil collecting (overspill/catch) basins:

When used for oil collecting basins (safety basins in the area of oil storage tanks / secondary containment area), minimum one priming coat and two undiluted finishing coats are essential. Apply the minimum consumption: 950 ml/m².

Apply successive coats in different colours, avoiding bare patches. In order to make the individual coats noticeable, a 1 cm wide strip of the 2nd and 3rd coat must be left visible. After completion of coatings, a label should be put in sight, stating the name of coating material, applicator's name and date of application. Appropriate labels can be ordered from Caparol.

Note: The coating is not resistant to biodiesel.

Alternative Surface Design

Strewing Color-Chips

Strew Disboxid 948 Color-Chips over the freshly applied coating and then seal the surface, either even or slip-resistant.

Even sealing:

Apply Disbothan 446 PU-Klarschicht for exteriors or for interiors Disbon 405 Klarsiegel (transparent sealer) over the full surface.

Anti-skid (slide-blocking) sealing:

On exterior surfaces:

Disbothan 446 PU-Klarschicht, 100 % by weight
Disbon 947 SlideStop Rough, 10 % by weight
Disbocolor 499 Thinner, 5 - 10 % by weight

On interior floor spaces:

Disbon 405 Klarsiegel, 100 % by weight
Disbon 947 SlideStop Fine, 3 % by weight

Official Prescriptions for the Coating of Oil Collecting (Overspill/Catch) Basins

Field of Application:

The material is suitable for coating concrete, renders/plasters and screed surfaces for collecting (overspill/catch) basins within closed buildings used for the storage of

- Heating oil EL to DIN 51 603-1
- unused motor oils
- unused motor vehicle gear oils and mixtures of saturated and aromatic hydrocarbons with aromatics content of < 20 % by weight and flashpoint < 55 °C, e.g. insulating oils for transformers and hydraulic oils such as Shell Diala oil D of German Shell AG and the following hydraulic oils: NUTO H 46, manufacturer: Esso AG, Shell Tellus ÖL/oil 46 of German Shell AG, Aral Vitam GF 46 of Aral AG, Energol HLP-HM 46 of BP Oil Deutschland GmbH.

Follow all requirements of the general appraisal certificate for coating collecting (overspill/catch) basins and areas. German general appraisal certificate is available on request.

Structural Requirements:

Suitable design features must be taken to prevent settlement or shrinkage cracks in the outer walls or the bottom of oil collecting (overspill/catch) basins or chambers, e.g. indentations, reinforcements, anchors, etc., in any case. The pressure of liquid must be taken into consideration. There must be no expansion joints in or around collecting basins and chambers/areas. Concrete, renders/plasters and cement-based composition floors (screed) must be sound/stable and free from defects. Inner edges must be formed as grooves (concave fillets). Rendering/plasters and screeds must adhere firmly to the load-bearing structures, outer walls and the base/bottom. Their surface must not be smoothed with a steel trowel, but has to be rubbed with a wooden float. Subsequent powdering with cement is not permitted. Laying pipes, etc., in the area of the max. possible fluid/liquid level is prohibited for collecting basins and areas.

Surfaces of concrete or masonry, not complying with the above mentioned requirements, must receive a firmly adherent, sound coat of cement plasterwork. Concrete, renders/plasters or screed surfaces should be dry and must have aged for at least 28 days before any application. The following norms/standards are applicable as minimum requirements for the quality of substrates:

- Concrete: DIN EN 206-1:2001-07, DIN 1045-2: 2001-07, DIN 1045-3: 2001-07
- Render/plaster: DIN EN 998-1:2003-09 and DIN V 18 550: 2005-04, render, mortar group CS IV or PIII
- Cement-based composition floor (screed): DIN EN 13813: 2003-01 and DIN 18 560-3: 2006-03, table 1 - strength class C25/F4, in combination with DIN 18 560-1: 2004-04, paragraph 7.5

All kinds of water penetration, e.g. ground water and seepage to the reverse side of the coating must be avoided. The building component must be properly sealed according to relevant norms. Current German standard: DIN 18195-4: 2008-08 Sealing of buildings, sealing against soil moisture (capillary water, adherent water) and non-ponding seepage on base plates and walls, sizing and specification. The material can only be applied when the substrate condition complies with the aforementioned structural requirements (current standards). Otherwise the intended purpose cannot be achieved.

Consumption

Floor Coating	
Priming Coat (interior)	
Disbon 400 BodenFinish	Approx. 150–200 ml/m ² diluted 30 % with tap water
Priming Coat (exterior)	
CapaSol LF Concentrate	Approx. 150–200 ml/m ² diluted 1 : 2 parts by volume
Coating	
Disbon 400 BodenFinish	Min. 2 x 200 ml/m ²
Surface Design	
<i>Chips to be strewn</i> Disboxid 948 Color-Chips	Approx. 30 g/m ²
<i>Even sealing (exterior)</i> Disbothan 446 PU-Klarschicht	Approx. 150 ml/m ²
<i>Even sealing (interior)</i> Disbon 405 Klarsiegel	Approx. 130 ml/m ²
<i>Non-skid sealing (exterior)</i> Disbothan 446 PU-Klarschicht Disbon 947 SlideStop Rough Disbocolor 499 Thinner	Approx. 150 ml/m ² Approx. 15 g/m ² Approx. 8–15 ml/m ²
<i>Non-skid sealing (interior)</i> Disbon 405 Klarsiegel Disbon 947 SlideStop Fine	Approx. 130 ml/m ² Approx. 4 g/m ²
Coating of Oil Collecting/Catch Basins	
First Coat	Approx. 150–200 ml/m ² diluted 30 % with tap water
Intermediate Coat	Approx. 400 ml/m ² undiluted
Finishing Coat	Approx. 400 ml/m ² undiluted

The exact rate of consumption is best established by a trial coating on site.

Application Conditions

Material, Atmospheric, and Substrate Temperature:

Min. 5 °C, max. 30 °C during application and drying.

Relative humidity must not exceed 80 %. Substrate temperature should always be min. 3 °C above the dew point temperature.

Waiting Time

The waiting time between work steps should be minimum 6 hours at 20 °C. Higher temperatures shorten and lower temperatures extend this time period.

Drying/Drying Time

At 20 °C and 60 % relative humidity, walkable after approx. 6 hours.

If applied with Disbon 400 BodenFinish and Disbon 405 Klarsiegel, then recoatable after approx. 6 hours, and with Disbothan 446 PU-Klarschicht after approx. 1 day. Ready for mechanical loads after approx. 3 days. Lower temperatures extend the drying time.

Tool Cleaning

Immediately after use or during longer breaks. Clean with water or warm soapy water.

Advice

German Certificates

- 1-1039: General appraisal certificate
Coating material for oil collecting basins
MPA Karlsruhe

Please Note (Status as at Date of Publication)

Keep out of the reach of children. In case of spray application: Do not breathe spray dust. Provide for sufficient ventilation during and after the application. In case of contact with eyes or skin, rinse immediately with plenty of water.
Do not empty into drains, water courses and onto the ground.
Tool cleaning immediately after use with water and soap.
Safety data sheet available for professional user on request.

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 made to removing wastage from site in compliance with standard construction site procedures.
In Germany: Only completely emptied containers should be given for recycling. Dispose containers with residues of liquid material as remnants of water-based paints and dried material as hardened paints waste or via domestic waste.

EU limit value for the VOC content

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

Product Code Paints and Enamels

M-LW01

Further Details

See Safety Data Sheet (MSDS).
Follow the application references and advice for the upkeep of floorages while applying our materials.

CE Labelling

CE labelling is based on DIN EN 13813 "Screed mortars, screed compounds and screeds – screed mortars and screed compounds – Properties and Requirements" (January 2003) 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 standard are to be labelled with the CE mark.

Technical Assistance

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

Customer Service Centre

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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. 400 · Disbon 400 BodenFinish · Issued: September 2010

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