

Disbocret® 515 Betonfarbe

High-grade, crack covering, finishing anti-carbonation protective coating with excellent covering power, specifically suitable for concrete – also for concrete surfaces with existing coating.



Product Description

Field of Application

Anti-carbonation coating, protects from penetration of harmful substances and water and enhances the load capacity / performance of new, existing and repaired concrete and reinforced concrete surfaces.

Material Properties

- Ideal application characteristics.
- Weatherproof.
- Alkali resistant.
- Resistant to UV light exposure.
- Covers surface cracks < 0.1 mm wide.
- Water vapour permeable.
- Reduces the effects of CO₂ and SO₂ exposure.
- Highly filling with good flow.
- Meets the requirements of EN 1504-2 and DIN V 18026: Surface protection systems for concrete.

When the full surface is treated with Disbocret® 505 Feinspachtel (fine filler/surfacer), concrete paint Disbocret® 515 can be applied already after approx. 6 hours without priming. Tested in combination with Disboxan 450 Fassadenschutz or Disboxan 451 ImprägnierCreme as OS-B and with Disbocret® 505 Feinspachtel or Disbocret® 510 Füllschicht as OS-C in accordance with TL/TP OS of ZTV-ING.

Material Base / Vehicle

Styrene acrylate dispersion/emulsion

Packaging/Package Size

- **Standard:**
15 litres plastic bucket
- **ColorExpress:**
12 litres bucket

Colours

White.
Special colour shades are available on request.

12 l packaging of concrete paint Disbocret® 515 can be tinted via ColorExpress tinting machines in shades of the Caparol 3D plus System for building paints.

Colour Resistance according to BFS Data Sheet No. 26:

Binder: Class A
Pigmentation: Group 1 to 3 depending on the shade

Gloss Level

Matt according to DIN EN 1062.

Storage

Store cool, dry and frost-free.
Original, tightly closed containers have a shelf life of minimum 1 year.



Technical Data

■ Density:	approx. 1.4 g/cm ³
■ Solids content:	approx. 65 % by weight
■ Dry film thickness:	approx. 40 - 50 µm/100 ml/m ²
■ Resistance-count for diffusion µ (H ₂ O):	5,500
■ Resistance-count for diffusion µ (CO ₂):	2,300,000
■ Diffusion-equivalent air layer thickness s _d H ₂ O:	approx. 0.88 m (Dry film thickness: 160 µm)
■ Diffusion-equivalent air layer thickness s _d CO ₂ :	approx. 368 m (Dry film thickness: 160 µm)
■ Water permeability (w-value):	< 0.02 kg/ (m ² · h ^{0.5}) Class w ₃ (low) according to DIN EN 1062

Application

Suitable Substrates

Normal and heavy concrete, surfaces reprofiled with Disbocret® fillers/surfacers, mineral renders/plasters and existing coatings. The average adhesive tensile strength of the substrate must be ≥ 1.0 N/mm², the lowest individual value being 0.5 N/mm².

Substrate Preparation

Mineral Substrates:

The substrate must be clean and free from loose particles that may prevent good adhesion. Separating substances, e.g. oils or fats/greases, must be removed by suitable methods. Highly polluted substrates, e.g. infested with moss and algae, and vitreous, unsound cement laitance must be removed using e.g. suitable blasting equipment and solid medium. The substrate must be free of corrosive substances, e.g. chlorides.

Coated Substrates:

Check existing paint coatings for adequate adhesion to the substrate. Remove non-adherent existing coatings and flexible (resilient), crack-bridging dispersion/emulsion coatings, e.g. with suitable blasting medium and equipment. Clean sound, adherent, non-chalking existing paint coatings thoroughly with water jet or steam jet. As there may be different types of existing coatings, the planned coating system must be checked in advance for functionality by a trial application.

Damages, Pores and Shrink Holes:

To achieve an even and sufficiently thick protective coat, all spallings, cracks, pores, unevenness, shrink holes and surface roughness must be thoroughly repaired with adequate Disbocret® system products in accordance with the manufacturer's recommendations.

Preparation of Material

Disbocret® 515 is ready for use, but should be stirred before application. The product can be diluted up to a max. of 5 % with tap (potable) water, depending on the required application method, weather conditions or substrate requirements. Adjust to spraying consistency by adding max. 1 - 2 % of tap water, if necessary.

Method of Application

Disbocret® 515 can be applied by paint brush, roller or spraying equipment. During airless spray application, the filter should be cleaned intermittently, in order to avoid clogging with fillers. Nozzle size: 0.018 – 0.021 inch. The product should not be applied in direct sunlight or on sun-heated substrates, during strong wind, fog or rain, etc. Protective tarpaulins should be used, if necessary. In Germany: Follow VOB, part C (DIN 18 363, paragraph 3).

Layer Thickness

For an efficient surface protection minimum 80 µm of dry-film layer thickness is required.

Surface Coating System

Substrate	Priming Coat
Absorbent mineral substrates (e.g. concrete, renders/plasters)	Disboxan 450 Fassadenschutz
Partial surfacing with Disbocret® 506 Planspachtel	CapaSol LF Concentrate diluted 1 : 2 with tap water
Complete surfacing with Disbocret® 505 Feinspachtel	not applicable
Surfacing with Disbocret® 510 Füllschicht	not applicable
Adherent, rigid existing coating	CapaGrund Universal
Adherent enamel coating	Disbon 481 EP-Uniprimer

Prime horizontal, uncoated frontal surfaces with Disboxid 420 E.MI Primer and treat (scatter/cover) with quartz sand Disboxid 942 Mischquarz. Subsequently apply one intermediate and one finishing coat.

Consumption

Approx. 200 ml/m² per coat.

Application Conditions

Min. 5 °C and max. 40 °C for product, substrate and ambient air.

Drying/Drying Time

At 20 °C and 65 % of relative humidity dust-dry after approx. 4 hours, rainproof after approx. 6 hours and recoatable after approx. 12 hours.

Note:

In case of moist weather conditions (rain, dew, fog) yellowish transparent traces of additives, showing a slightly glossy shine and stickiness, may occur on the surface of compact, cool substrates or by means of delayed drying caused by the weather.

The traces are water-soluble and will disappear under the influence of a sufficient water quantity, e.g. repeated intensive rainfalls. The quality of the dried coating will not be affected by these changes. In case of direct reworking, all traces of additives must be pre-wetted and completely removed after a short reaction time. An additional priming coat of CapaGrund Universal must be applied. The traces cannot occur when the product is applied under suitable climatic conditions.

Tool Cleaning

Clean tools immediately after use with water.

Advice

German Certificates

- 4-1084: Testing to ZTV-ING, TL/TP, OS B, P 2134/00-71 Polymer-Institute, Flörsheim
- 4-1085: Testing to ZTV-ING, TL/TP, OS C, P 2134/00-72 Polymer-Institute, Flörsheim
- 4-1086: Testing to ZTV-ING, TL/TP, OS C, P 2134/00-76 Polymer-Institute, Flörsheim

Please Note (Status as at Date of Publication)

Keep out of reach of children. In case of contact with eyes, rinse immediately with plenty of water. In case of spray application: Do not breathe spray dust. Do not empty into drains, water courses or onto the ground.

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. In Germany: Only completely emptied containers must be given for recycling. Dispose containers with residues of liquid product via waste collection point accepting old paints and enamels. Dispose dried/hardened product residues as construction site/demolition/municipal or domestic waste.

EU limit value for the VOC content

of this product (category A/c): max. 40 g/l (2010). This product contains max. 40 g/l VOC.

Product Code Paints and Enamels

M-DF 02

Further Details

See Material Safety Data Sheet (MSDS).
Follow the application references while applying our products.

CE Labelling

EN 1504-2

"Products and systems for protection and repair of concrete load-bearing structures-Part 2: Protective coating systems for concrete", defining the requirements for the surface protection proceeding. 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 bodies.

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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.515 · Disbocre® 515 Betonfarbe · Issued: January 2017

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