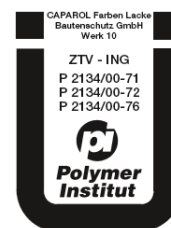


# Disbocret® 515

## Betonfarbe • Concrete Paint

- High-grade, crack covering, finishing anti-carbonation protective coating with excellent covering power, specifically suitable for concrete – also for concrete surfaces with existing coating.
- Approved to ZTV-ING, TL/TP OS-B and OS-C.

515



### 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.

#### 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 CO<sub>2</sub> and SO<sub>2</sub> exposure.
- Highly filling with good flow.
- External and internal quality control.

If the complete substrate is treated with surfacer Disbocret® 505 Feinspachtel, concrete paint Disbocret® 515 can be applied already after approx. 6 hours without priming.

Tested in combination with Disboxan 450 Fassadenschutz as OS-B and with Disbocret® 505 Feinspachtel or Disbocret® 510 Füllschicht as OS-C in accordance with TL/TP OS of ZTV-ING. The German general site inspection test certificate is available.

#### Material Base

Styrene acrylate-dispersion.

#### Packaging

15 litres plastic bucket  
12 litres bucket (ColorExpress)

#### Colour

White.  
Special tints are available on request.  
12 l packaging of concrete paint Disbocret® 515 can be tinted via ColorExpress tinting machines in hues of the Caparol 3D plus System for building paints.

#### Gloss Level

Matt 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 <sup>3</sup>
Solid-content	approx. 65 % by weight
Dry-film thickness	approx. 40–50 µm/100 ml/m <sup>2</sup>
Resistance-count for diffusion	
µ H <sub>2</sub> O	5,500
µ CO <sub>2</sub>	2,300,000
Diffusion-equivalent air layer thickness at 160 µm dry-film thickness	
s <sub>d</sub> H <sub>2</sub> O	approx. 0.88 m
s <sub>d</sub> CO <sub>2</sub>	approx. 368 m
Water absorption coefficient	
w <sub>24</sub>	< 0.02 kg/ (m <sup>2</sup> · h <sup>0.5</sup> )

### Application

#### Suitable Substrates

Normal and heavy concrete, surfaces reprofiled with Disbocret® surfacers and fillers, mineral renders/plasters and existing coatings. The average adhesive tensile strength of the substrate must be ≥ 1.0 N/mm<sup>2</sup>, the lowest individual value being 0.5 N/mm<sup>2</sup>.

#### Substrate Preparation

##### 1. Mineral substrates

The substrate must be clean and free from loose material 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.

##### 2. Coated substrates

Check existing paint coatings for adequate adhesion to the substrate. Remove non-adherent existing coatings and flexible (resilient), crack-bridging/covering dispersion 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.

##### 3. Damages, pores and shrink holes

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

#### Preparation

Disbocret® 515 is ready for use, but should be stirred before application.

The material can be thinned up to 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 brush, roller or spraying equipment. During the airless spray application, the filter should be cleaned intermittently, in order to avoid clogging with fillers.

Nozzle size: 0.018 – 0.021 inch.  
Follow VOB, part C (DIN 18 363, paragraph 3.1.3).

The material 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.

## 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 433 EP-Grund BF and treat (scatter/cover) with silica/quartz sand Disboxid 942 Mischquarz. Subsequently apply one intermediate and one finishing coat.

### Layer Thickness

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

### Consumption

Approx. 200 ml/m<sup>2</sup> per coat.

### Application Temperature

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

### Drying Times

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.

### Tool Cleaning

Clean tools immediately after use with water.

## Advice

### 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 November 2007)

Keep out of reach of children. In case of contact with eyes, rinse immediately with plenty of water. 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 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/c):  
max. 75 g/l (2007) / 40 g/l (2010).  
This product contains max. 40 g/l of VOC.

### Product Code Paints and Enamels: M-DF 02

### Further Information:

See Material Safety Data Sheets.  
Follow the application references while applying our materials.



1119 – CPD - 0711

CAPAROL  
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06<sup>1)</sup>

EN 1504-2

Materials for surface protection  
Coating

Cross-cut test	≤ GT2
CO <sub>2</sub> permeability	sd-value > 50 m
Water vapour permeability	Class I, < 5 m
Capillary water absorption and water permeability	w < 0.1 kg/(m <sup>2</sup> · h <sup>0.5</sup> )
Pull-trial, without traffic loads	≥ 1.0 N/mm <sup>2</sup>
Temperature cycling tolerance	≥ 1.0 N/mm <sup>2</sup>
Crack covering (bridging) capacity	A1
Fire behaviour	B2
Artificial weathering	no visible faults

<sup>1)</sup> The last two figures of the year attaching the CE labelling.


### CE Labelling

CE labelling is based on DIN EN 1504-2 "Products and systems for protection and repair of concrete load-bearing structures; definitions, requirements, quality control and evaluation of conformity, Part 2: Protective coating systems for concrete".

### 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.

### Customer Service Centre:

 (+49) 0 61 54 / 71 17 10  
Fax No.: (+49) 0 61 54 / 71 17 11  
e-mail: kundenservicecenter@caparol.de

### International Distribution:

Please see [www.caparol.com](http://www.caparol.com)

## Technical Information No. 515 • Revised: August 2008

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 · Disbocret 515 Betonfarbe · issued: October 2007 (order no. 50006825)

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