

Disbocret® 715 - PCC I-Feinmörtel



Polymer modified, cement-bound repair mortar for concrete repairs. Suitable for reprofiling and levelling gradients of trafficable, horizontal concrete surfaces subjected to dynamic loads.

Product Description

Field of Application	For reprofiling defects and spallings and for levelling gradients on horizontal substrates, as e.g. in car parks/parking garages (case of application: PCC I). Suitable for making screeds, reprofiling defective areas and increasing rebar (reinforcing steel rod) protection.
Material Properties	<ul style="list-style-type: none"> ■ Easy preparation and good working properties. ■ Low water-cement (w/c) ratio. ■ Frost-resistant, resistant to de-icing salt. ■ Low shrinkage, low internal stress (tension). ■ For interior and exterior use. ■ For layer thicknesses of 10-40 mm, max. grit/grain size: 4 mm ■ Corresponds to mortar Class M2 as per German guideline RiLi SIB. ■ Reaction to fire as per DIN EN 13501-1 A2_{fl}-s1 (non-combustible). ■ Meets the requirements of DIN EN 1504-3: Structural and non-structural repair.
Material Base / Vehicle	If combined with bonding agent/bridge (slurry) Disbocret® 713 PCC-Haftbrücke the product is tested as a repair system according to TL/TP BE-PCC of ZTV-ING.
Packaging/Package Size	2-component, polymer modified, cement-bound dry mortar.
Storage	<ul style="list-style-type: none"> ■ Dry mortar: 40 kg bag, 18 m³ silo (capacity: max. 32 t) ■ Mixing liquid: 25 l plastic can, 1,000 l container
Technical Data	<p>Dry, shelf life: min. 9 months (from date of manufacture); low chromate content: 9 months.</p> <ul style="list-style-type: none"> ■ Bulk density: Approx. 1,800 kg/m³ ■ Maximum grit size: 4 mm ■ Apparent density of green mortar: Approx. 2,300 kg/m³ ■ Properties of hardened mortar: (Average value after 28 days) Bulk density of hardened mortar: Approx. 2,150 kg/m³ Compression strength: Approx. 55 N/mm² Tensile strength under flexion: 10 N/mm² Adhesive tensile strength: > 2.0 N/mm² Dynamic modulus of elasticity: Approx. 38,000 N/mm²

Application


Suitable Substrates	Concrete. The average adhesive tensile (pull-off) strength of substrates must be 1.5 N/mm ² , with a minimum single/individual value of 1.0 N/mm ² .
Substrate Preparation	<p>The concrete must be sound/stable, clean and free from all loose substances that may prevent good adhesion. Brittle or loose concrete, concrete containing corrosive substances, e.g. chlorides, must also be thoroughly removed by suitable means, along with any remnants of paint, oil, fat/grease or parting agents (formwork oil residues).</p> <p>In the same way, surface laitance should be removed using suitable means. This should be removed to such a depth that the fine-grained repair mortar would find sufficient adhesion to the treated surface. The edges of spalled or damaged areas must be bevelled (45° – 60°).</p> <p>Pretreat reinforcing steel rods with bonding agent Disbocret® 713 PCC Haftbrücke according to factory specification as corrosion protection.</p> <p>Pre-wet the concrete with tap water to obtain a matt (flat) moist surface aspect, when applying the bonding slurry. Then apply the fine-grained repair mortar onto the bonding slurry, working wet-on-wet.</p>

Preparation of Material	Pour the given quantity of mixing liquid Disbocret® 716 PCC-Anmachflüssigkeit in a clean vessel. Add the corresponding quantity of dry mortar gradually, while agitating with a suitable low-speed paddle mixer (agitator; max. 400 rpm) very thoroughly for approx. 3 to 5 minutes, until the mortar is free of lumps and has a homogeneous consistency.					
Mixing Ratio	<table border="1"> <thead> <tr> <th>Dry mortar</th> <th>Mixing liquid</th> </tr> </thead> <tbody> <tr> <td>1 part by weight 40 kg bag</td> <td>approx. 0.09 parts by weight approx. 3.6 l</td> </tr> </tbody> </table>	Dry mortar	Mixing liquid	1 part by weight 40 kg bag	approx. 0.09 parts by weight approx. 3.6 l	
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Method of Application	Apply the fine-grained repair mortar with suitable tool, e.g. shovel, trowel or float, intensively blending (pressing onto it) the material wet-on-wet into the layer of bonding agent/slurry and smoothen the surface, if necessary. Fast drying, caused by direct sunlight, high temperatures and drying wind/draught must be prevented by suitable protective measures or by aftercare. Formwork must be handled according to state-of-the-art technology.					
Layer Thickness	Min. 10 mm, max. 40 mm					
Consumption	Dry mortar: Approx. 2.0 kg/m ² per mm of thickness.					
Workability	Processing time: Approx. 60 minutes at 20 °C.					
Application Conditions	Material, atmospheric, and substrate temperature: Min. 5 °C, max. 30 °C during application and drying.					
Tool Cleaning	Immediately after use with water.					

Advice

German Certificates	<ul style="list-style-type: none"> ■ Testing according to ZTV-ING, TL/TP BE PCC, application PCC I, Polymer-Institute, Flörsheim (Germany) ■ Check for the use as a silo product Polymer-Institute, Flörsheim (Germany)
Special Risks (Hazard Note) / Safety Advice (Status as at Date of Publication)	<p>Restricted to professional users. Causes skin irritation. Causes serious eye damage. Do not breathe dust or mist. Do not get in eyes, on skin, or on clothing. Wear protective gloves/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. Contains: Cement, portland.</p>
Disposal	<p>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 empty bags should be handed in for recycling. Dispose hardened material residues mixed construction and demolition site waste.</p>
Giscode	ZP 1 (Germany)
Further Details	See Material Safety Data Sheet (MSDS). Follow the application recommendation while applying our products.

CE Labelling

	
1119	
Disbon GmbH Roßdörfer Straße 50 64372 Ober-Ramstadt	
09	
DIS-715-007428	
EN 1504-3:2005 Substitute product for statically and not statically relevant concrete repair	
EN 1504-2: ZA.1a	
Compression strength	Class R4
Content of chloride ions	≤ 0.05%
Adhesive strength	≥ 2.0 MPa
Thermal shock resistance	≥ 2.0 MPa
Carbonation resistance	Passed
Modules of elasticity	≥ 20 GPa
Capillary absorption of water	≤ 0.5 kg*m ² *h ^{-0,5}
Hazardous substances	Conformity with 5.4
Reaction to fire	Class A2 _{fl} -s1

EN 1504-3

CE labelling is based on EN 1504-3 “Products and systems for protection and repair of concrete load bearing structures – Part 3: Statically and not statically relevant repair”, defining the requirements for the repair products.

Products matching the above mentioned standards are to be labelled with the CE mark. Corresponding information (performance record according to BauPVO) is available on our website www.disbon.de

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 packaging/bag. Established by documented evidence of conformity 2+ with controls and tests on the part of the manufacturer and notified bodies.

Customer Service Centre

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