Disbocret[®] 714 PCC I-Grobmörtel



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 deep defects and spallings and for levelling gradients on horizontal surfaces as e.g. in car parks/parking garages (application: PCC I). Suitable for producing screeds, reprofiling defective areas and increasing rebar (reinforcing steel rod) protection. Also suitable as concrete repair mortar and for embedding mixed metal oxide titanium anodes for cathodic corrosion protection of reinforced concrete (ferroconcrete).		
Material Properties	 Easy preparation and good working properties. Low water-cement (w/c) ratio. Frost-resistant, de-icing salt resistant. Low shrinkage and internal stress (low tension). For interior and exterior use. For layer thicknesses of 20 - 100 mm, max. grain size: 8 mm. Corresponds with mortar class M3 as per German guideline RiLi SIB. Mortar for embedding anodes in the field of cathodic corrosion protection. Reaction to fire as per DIN EN 13501-1: A2fi-s1 ("nicht brennbar" / non-combustible/inflammable). Meets the requirements of DIN EN 1504-3: Structural and non-structural repair. 		
	If combined with bonding agent/bridge (slurry) Disbocret [®] 713 PCC Haftbrücke the material is tested as a repair system according to TL/TP BE-PCC of ZTV-ING.		
Material Base / Vehicle	2-component, polymer modified cement mortar.		
Packaging/Package Size	 Dry mortar: 40 kg bag, 18 m³ silo (capacity: max. 32 t) Mixing liquid: 25 l plastic can, 1,000 l container 		
Storage	Dry, shelf life is min. 9 months (from date of manufacture); low chromate content: 9 months.		
Technical Data	 Bulk density: Maximum grit size: Apparent density of green mortar: Properties of hardened mortar: 	approx. 1,800 kg/m ³ 8 mm approx. 2,300 kg/m ³ (Average values after 28 days) Compression strength: approx. 55 N/mm ² Tensile strength under flexion: approx. 9 N/mm ² Adhesive tensile strength: > 2.0 N/mm ² Dynamic modulus of elasticity: approx. 38,000 N/mm ² Static modulus of elasticity: approx. 35,000 N/mm ²	
	Application		
Suitable Substrates	Concrete. The average adhesive tens minimum single value of 1.0 N/mm ² .	ile (pull-off) strength of the substrate must be 1.5 N/mm ² , with a	
Substrate Preparation		nd free from all 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 separating agent (formwork oil residues). In the same way, surface laitance should be removed using suitable means. This should be removed to such a depth that the repair mortar can find sufficient adhesion to the treated surface. The edges of spalled or damaged areas must be bevelled (45° – 60°). Pretreat reinforcing steel rods with bonding agent Disbocret[®] 713 PCC Haftbrücke according to factory specification as corrosion protection.

Pre-wet the concrete to obtain a matt moist (flat) surface appearance, then apply the coarse-grained repair mortar onto the bonding slurry (wet-on-wet).

Technical Information No. 714

Preparation of Material	Add the corresponding me	easured quantity of dry morta mixer (max. 400 rpm) for ap	PCC-Anmachflüssigkeit in a clean vessel. r gradually while agitating thoroughly with a prox. 3 to 5 minutes, until the mortar is free of
Mixing Ratio	Dry mortar	Mixing liquid	
	1 part by weight 40 kg bag	approx. 0.085 parts by weight approx. 3.4 I	
Method of Application	Apply the 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. Prevent fast drying due to direct sunlight, high temperatures and drying wind/draught by suitable protective measures or by finishing treatment. Formwork must be handled according to acknowledged rule of technology.		
Layer Thickness	Min. 20 mm, max. 100 mm		
Consumption	Dry mortar: approx. 2.0 kg	n/m ² per mm of layer/coating t	hickness.
Workability	Processing time: Approx. 60 minutes at 20 °C.		
Application Conditions	Material, substrate and ambient air temperature: Min. 5 °C, max. 30 °C during application and hardening.		
Waiting Time	At 23 °C: Walkable and trafficable after 1 day. Application of OS systems after 5 days.		
Tool Cleaning	Immediately after use with	n water.	
	Advice		
German Certificates	Testing according to load	ad class M3, RiLi-SIB, Polymo	ication PCC I, Polymer-Institute, Flörsheim er-Institute, Flörsheim ar for cathodic corrosion protection, IBAC,
Special Risks (Hazard Note) / Safety Advice (Status as at Date of Publication)	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, chemicals.		
Disposal	requirements of the local a in compliance with standa In Germany: Only complet	authorities. Particular attention rd construction site procedure	rs should be handed in for recycling. Dispose
Giscode	ZP 1 (Germany)		
Further Details	See Material Safety Data Follow the application refe	Sheet (MSDS). rrences while applying our ma	aterials.

CE Labelling

11		
Disbon Roßdörfer 64372 Obe		
0	9	7
DIS-714		
	4-3:2005 ally and not statically relevant repairs	
EN 1504	-3: ZA.1a	
Compressive strength	Class R4	
Content of chloride ions	≤0.05%	
Adhesive strength	≥2.0 MPa	
Compatibility to temperature changes	≥2.0 MPa	
Carbonation resistance	Confirmed	
Modules of elasticity	≥20 GPa	
Capillary absorption of water	≤0.5kg*m²*h ^{-0,5}	
Hazardous substances	Conform with 5.4	
Reaction to fire	Class A2 _{fl} -s1	
EN 1504-3 CE labelling is based on EN 1504-3 "P bearing structures – Part 3: Statically a the repair products.		

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 bodys.

Tel.: +49 6154 71-71710 Fax: +49 6154 71-71711 e-mail: kundenservicecenter@caparol.de

International Distribution: Please see www.caparol.com

Technical Information No.714 · Issue: July 2017

Customer Service Centre

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.714 · Disbocret[®] 714 PCC I-Grobmörtel · Issued: March 2016